CONSTRUCTION NEWS

UPS AND DOWNS OF THE MARKET

FREIGHT RATES—The increase in freight rates, effective Aug. 26, has already been added to the prices of some of the construction materials. In certain cases, the old prices are maintained, but it is quite likely that by Oct. 1 most of the items will have been increased by at least the amount of the freight advance.

PIG IRON—There is considerable activity, and sales of as high as 1,000 tons to a single customer have been made. Increases run as high as $9 per ton over last month.

RAILWAY SUPPLIES—Light rails are at a premium, prices reaching as high as $76 per ton, according to report. Our quotations are the formal figures of the Steel Corporation, but no rails are available at these prices for several months to come. Railway ties have advanced in the St. Louis district, while Chicago reports that next month will probably see a decrease in the price of ties in that city. It is reported that as high as $3 for oak ties has been offered in New York; pine ties cost about $2 each in New York.

PIPES—We published the new Pittsburgh basing card for wrought pipe (steel and iron), showing an advance of about three points. Cast-iron pipe up in Chicago and San Francisco. Dallas prices of clay drain tile are now about the same as those in Chicago, St. Louis and New York. Sewer pipe advanced in St. Louis, Dallas, Minneapolis, Seattle and Detroit. In Baltimore, prices remain the same as last month, but the 3-in. and 5-in. sizes have disappeared from the market, stocks there beginning with 6-in.

ROAD OILS—A general increase will be noted in our list of road oils. These oils are very high in price and extremely difficult to obtain, inasmuch as most stocks are going for use as fuel oil.

WOOD BLOCKS—Last month there was an advance in New York, and this month we show another advance of 9c. for 3½-in. and 14c. for 4-in. Advances also in Minneapolis, Dallas, and Baltimore.

CONCRETING MATERIALS—There were very few changes in prices of sand, gravel and crushed stone. These materials are usually of local production and, therefore, would ordinarily not be affected by changes in freights. Cement prices are by no means stable, and in some cases only an approximation can be given. For example, at some points carload lots are not available—as in Jersey City, where we quote the retail price of $1.25 net, as against last month's large quantity price of $3.22. In New York the price is from 12 to 15c. above last month's quotation of $1.10. There were increases in New Orleans, Minneapolis, Dallas, Baltimore and Detroit. The movement of cement from Canada to the United States is of such volume as to hamper the construction of the Welland Ship Canal, according to dispatches. The price of cement in Seattle is still $3.03 without bags, but an important increase is expected shortly. Boston is experiencing an acute shortage of cement, lime and plaster.

REINFORCING MATERIALS—Certain of the companies have already added the increased freight, while other companies are not yet in a position to announce the new schedule of prices. The adjustment will shortly be made and the new schedule will be announced in the Oct. 7 issue of *Engineering News-Record*.

HOLLOW TILE—Prices are again being quoted for New York and Perth Amboy. There were increases also in Boston and Baltimore.

PREPARED ROOFINGS—There is a shortage of slate-finished material. Although we show an increased price for shingles these are practically unobtainable at this time.

STEEL SHEETS—The upper limit of the range of prices has been advanced in Pittsburgh, and warehouse prices in New York and San Francisco have been increased. Prices are still speculative.

LUMBER—San Francisco prices remain the same. Southern Pine up in Chicago. Increases in Boston, New Orleans, Baltimore and Montreal. Prices in Chicago are prohibitive owing to car shortage at production points.

LABOR—There have been few changes in rates. The situation is very unsatisfactory in New Orleans owing to numerous strikes. In Montreal carpenters and hod-carriers are scarce; jobs in the country districts pay higher wages than in the city. In Detroit the labor supply is becoming more nearly balanced with the demand in the building and general contracting field; the demand in the automobile industry has lessened.

Price advances are indicated by **heavy type**, declines by *italics*

PIG IRON—Quotations compiled by The Matthew Addy Co.:

	Current	One Year Ago
CINCINNATI		
No. 2 Southern	$45.60	$30.35
Northern Basic	51.30	27.55
Southern Ohio No. 2	47.80	28.55
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	54.30	32.40
Southern No. 2 (silicon 2.25 to 2.75)	49.70	35.20
BIRMINGHAM		
No. 2 Foundry	42.00@44.00	27.75
PHILADELPHIA		
Eastern Pa	50.00*	30.65*
Virginia No. 2	50.00*	32.10*
Basic	48.00†	30.90†
Grey Forge	45.00*	29.90*
CHICAGO		
No. 2 Foundry Local	46.40	26.75
No. 2 Foundry Southern	48.00	28.00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	49.00	28.15
Basic	48.50	27.15
Bessemer	50.00	29.35
MONTREAL		
Silicon 2.25 to 2.75%	43.25	.....

* F. o. b. furnace. † Delivered.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	$55.00	$45.00	$45.00@$55.00	$45.00
Standard openhearth rails	57.00	47.00	47.00@57.00	47.00
Light rails, 8 to 10 lb.	50.00 @ 55.00	2.585*	*2.45 @ 3.50**	2.835*
Light rails, 12 to 14 lb.	**50.00** @ *55.00*	2.54*	*2.41 @ 3.34**	2.79*
Light rails, 25 to 45 lb.	**50.00** @ *55.00*	2.45*	*2.32 @ 3.25**	2.70*

* Per 100 lb.

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In. by 8½ Ft.
Chicago	Plain	$2.00	$2.25
Chicago	Creosoted	2.25	2.50
San Francisco	Douglas Fir—Green	1.35	.96
San Francisco	Douglas Fir—Creosoted	2.70	1.92

Prices per tie at mills in St. Louis district:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.80	No. 1	$0.60
No. 2	.90	No. 2	.70
No. 3	1.00	No. 3	.80
No. 4	1.25		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note:—Prices delivered in St. Louis, white oak 6 x 8 x 8, best grade, $2; 7 x 9 x 9, $2.25.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	— Pittsburgh — Current	One Year Ago	Chicago	St. Louis	San Francisco
Standard spikes, ⅝-in. and larger	$4.@4.25	$3.35	$3.55@4.25	$5.34	$7.75
Track bolts	6.00@6.50	4.35	4.00@5.25	Premium	8.75
Standard section angle bars	3.00@4.00	3.00	2.75	Premium	5.30

PIPE

WROUGHT PIPE—The following discounts are to jobbers for carload lots on the Pittsburgh basing card:

BUTT WELD

Steel Inches	Black	Galv.	Iron Inches	Black	Galv.
¼ to 3	45 to 57½	41½ to 44	⅜	15½ to 25½	+1½ to 11½
			½	19½ to 29½	1½ to 11½
			¾ to 1½	24½ to 34½	8 to 18½

LAP WELD

2	47 to 50½	34½ to 38	2	20½ to 28½	6½ to 14½
2½ to 6	50 to 53½	37½ to 41	2½ to 6	22½ to 30½	9½ to 17½
7 to 12	47 to 50½	33½ to 37	7 to 12	19½ to 27½	6½ to 14½
13 and 14	37½ to 41				
15	35 to 38½				

BUTT WELD, EXTRA STRONG, PLAIN ENDS

¼ to 1½	52 to 55½	39½ to 43	¼ to 1½	24½ to 34½	9½ to 19½
2 to 3	53 to 56½	40½ to 44			

LAP WELD, EXTRA STRONG, PLAIN ENDS

2	45 to 48½	33½ to 37	2	21½ to 29½	8½ to 16½
2½ to 4	48 to 51½	36½ to 40	2½ to 4	23½ to 31½	11½ to 19½
4½ to 6	47 to 50½	35½ to 39	4½ to 6	22½ to 30½	10½ to 18½
7 to 8	43 to 46½	29½ to 33	7 to 8	14½ to 22½	2½ to 10½
9 to 12	38 to 41½	24½ to 28	9 to 12	9½ to 17½	5½ to +2½

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black — New York	Chicago	St. Louis
⅜ to 3 in. butt welded	40%	54@40%	37%
2½ to 6 in. lap welded	35%	50@40%	33⅓%
	Galvanized — New York	**Chicago**	**St. Louis**
⅜ to 3 in. butt welded	24%	40½@30%	22%
2½ to 6 in. lap welded	20%	37½%@27½	19%

Malleable fittings, Class B and C, from New York stock sell at +32% list prices. Cast iron, standard sizes, net.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	—New York— Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco
4 in.	$79.30	$79.30	$57.30	$82.10	$78.00	$105.55
6 in. and over	76.30	76.30	54.30	79.10	75.00	102.55

Gas pipe and 16-ft. lengths are $2 per ton extra.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

Size, In.	— New York — Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$42.50	$35.00	$60.00	$60.00	....	$60.00
4	60.00	51.00	70.00	80.00	$45.00	62.00
5	85.00	65.00	....	100.00	65.00	84.00
6	110.00	90.00	125.00	120.00	90.00	110.00
8	175.00	130.00	195.00	180.00	150.00	181.00

SEWER PIPE—The following prices are in cents per foot for carload lots:

Size, In.	— New York — Current Delivered	Year Ago Not Del.	St. Louis	Chicago	San Francisco	Dallas
3	$0.19	$0.09	....	$0.15	$12.75	
4	19	09	....	15	17.00	$0.25
5	29	135	....	225	21.25	
6	29	135	$0.21	225	24.50	35
8	45	21	30	35	38.25	50
10	67	315	42	525	51	....
12	86	405	54	625	68	90
15	1.30	54	806	90	1.10	....
18	1.88	75	1.054	1.25	1.425	....
20	2.25	90	1.426	1.50	1.90	....
22	3.00	1.20	....	2.00	....	....
24	8.38	1.35	1.86	2.25	2.375	....
27	....	2.145	3.00	3.50	2.975	....
30	....	2.376	3.65	4.00	3.40	....
33	....	3.15	4.60	4.75	....	....
36	....	3.5875	4.90	5.50	....	....
	3	9	8	12	24	36
Boston	$1.65	$0.2475	$0.4225	$0.7425	$2.475	$6.875
Minneapolis	....	....	47	85	2.75	5.25
Denver	Quotations available next month					
Seattle	....	....	40	80	2.88	....
Kansas City	No prices obtainable					
Los Angeles	.0975*	.1525*	.27	.48	.60*	....
New Orleans	35 per cent off					
Cincinnati	53 per cent off					38%
Atlanta	....	....	.34	.55	2.00	....
Montreal	.55 per cent. off					
Detroit	52 per cent. off				50 per cent. off	
Baltimore delivered	231	3465	.539	1.0395	3.465	....

* 4-in., 6-in., 30-in. respectively

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. min. f.o.b. place named:

	Current	One Month Ago
New York, 45–65% asphalt (at terminal)	$0.14*	$0.04
New York, liquid asphalt (" ")	.14*	.06
New York, binder (" ")	.13*	.06
New York, flux (" ")	.14*	.04
St. Louis, 40% asphalt	.12*	.04
Chicago, 40-50% asphalt	.10½	....
Chicago, 60-70% asphalt	.11½	....
Dallas, 40–50% asphalt	.08	.07
Dallas, 60–70% asphalt	.10	.08
Dallas, 75–90% asphalt	.12	.10
San Francisco, binder, per ton	.13	....

*Note—Quotations nominal in New York. Scarcity in road oils.

ASPHALTUM—Price per ton in packages (350-lb. bbls. or 425-lb. drums), and in bulk in carload lots:

	Package	Bulk
New York (Bayonne, N. J.)	$35.00	$30.00
Boston	42.42	....
Chicago	30.90	23.40
San Francisco	19.00	13.50
Dallas	50.00	45.00
Seattle	27.00	....
Denver	....	45.00
Minneapolis	38.00	32.00
Kansas City	40.00	32.00
Atlanta	25.00	20.80
St. Louis	36.40	28.90
Baltimore	43.50	....
Los Angeles	21.15	....
Montreal	.....	37.00
Detroit	49.00	42.25
Maurer	35.00	32.00
	42.00	41.00

PAVING STONE—

New York	5-in. granite	No quotations	
Chicago	About 4x8x4 dressed	$3.40	sq.yd.
	About 4x8x4 common	3.05	sq.yd.
San Francisco	Basalt block 4x7x8	65.00	per M
Kansas City	Granite	3.65	sq.yd.
Boston	5-in. granite	110.00	per M
Atlanta	Granite	2.00	sq.yd.
Detroit	Granite, 26½ blocks per sq. yd.	2.85	sq.yd.
Baltimore	Granite	2.50	sq.yd.
Montreal	Granite	5.90	sq.yd.
New Orleans	Granite	3.90	sq.yd.
Cincinnati	Granite	3.25	sq.yd.

FLAGGING—

New York	Bronx	$0.24	sq.ft.
	Manhattan	.25	sq.ft.
	Queens, 5 ft.	.26	sq.ft.
	6x20-in. cross-walk	.05	lin.ft.
Chicago	18 in. wide	.70	lin.ft.

CURBING—Bluestone per lineal foot, in New York, costs 70c. for 5x16 in., 80c. for 5x18 in.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$4.07
New York	4	16	4.47
Boston	3	16	3.00
Chicago	4	16	3.75@4.00
Chicago	3½	16	3.25@3.50
St. Louis	3½	16	2.90
St. Louis	4	16	3.32
Seattle	4	16	Off market
Kansas City	4	16	3.00
Minneapolis	3½	16	3.50
Atlanta	3½	16	2.30
New Orleans	4	16	3.63
Dallas	4	18	4.00
Baltimore	3½	16	3.80
Montreal	4	16	4.60
Detroit	3½	16	3.40

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.

	Gravel — 1½ In. — Current	1½ In. — One Yr. Ago	¾ In. — Current	¾ In. — One Yr. Ago	Sand — Current	Sand — One Yr. Ago
New York	$3.00	$2.00	$3.00	$2.00	$1.50	$1.25
Denver	1.40	1.60	1.80	1.60	1.00	1.25
Chicago	2.15	1.35	2.15	1.35	2.15	1.35
Kansas City	3.25	2.50	3.75	3.00	1.25†	1.00
St. Louis	1.50	1.78	1.55	1.82	1.55*	1.68
Seattle, per ton	1.25	1.25	1.25	1.25	1.25	1.25
Dallas	2.50	2.00	2.50	2.00	2.00	1.50
Minneapolis	2.00	1.25	1.35	1.35	1.25	60
Cincinnati	....	....	1.50	....	1.45	1.35‡
San Francisco	1.50	1.15	1.50	1.15	1.50	1.00
Boston	3.50	1.60‡	3.00	1.65‡	2.75	....
New Orleans	3.05	2.40	....	2.40	1.55	1.20
Los Angeles	1.25	1.02	1.25	1.02	1.15	70
Atlanta, per ton	2.25	2.00	2.25	....	1.15	1.10
Detroit	2.50*	1.90	2.50*	1.90	2.50*	1.80
Baltimore	1.40‡	1.54	1.60‡	1.75	.70	65
Montreal, per ton	1.45*	1.20	....	....	1.30‡	1.10

* Fine white sand, Pacific and Ottawa, per ton $6.
† Kaw River sand is $1.75 per yd. ‡ per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.90@2.00	$1.65@1.75†	$2.15	$1.75@1.85
Chicago	2.35	1.30	2.50	1.30
St. Louis	1.90	1.50	1.90	1.50
Dallas	3.50	2.70	3.50	2.70
San Francisco	1.50	1.50	1.50	1.50
Boston	3.00*(del)	3.00	3.00 (del)	3.00
Minneapolis	2.25†	1.15	2.50	1.25
Denver	3.75	....	3.75	1.60
Kansas City	2.35	1.90	2.35	2.00
Seattle (Del.)	3.50	1.50	3.50	1.50
Cincinnati	....	....	1.65	....
Atlanta	3.10*	2.25	....	2.35
Los Angeles	1.60*	1.20	1.70*	1.12
Detroit	2.00*	1.65	2.10*	1.65
Baltimore	1.80*	1.25	2.20*	1.50
Montreal	2.30*	1.90	2.55*	2.15

* Per ton. † Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in.

CRUSHED SLAG—Price of crushed slag per net ton in carload lots:

	1½-In.	¾-In.	Roofing	Sand
Lebanon or Bethlehem, Pa.	$1.00	$1.00	$2.50	$0.90
Easton, Pa.	1.20	1.20	3.00	1.10
Buffalo, N. Y.	1.25	1.00	2.00	1.00
East Canaan, Conn.	1.25	1.35	3.50	1.10
Birmingham, Ala.	1.25	1.25	2.05	1.00
Toledo, Ohio	1.50	1.50	....	....

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump* per 200-Lb. Barrel Finished	Lump* per 200-Lb. Barrel Common
New York	$19.50	$18.50	$3.50*-at plant-	$3.30*
Kansas City	27.20	26.20	2.50	2.40
Chicago	....	....	....	1.65
St. Louis	25.00	21.00	....	2.50
Boston	27.50	25.25	3.70†	3.40†
Dallas	....	25.00	....	2.50†
Cincinnati	17.20	16.20	....	13.20‡
San Francisco	23.50	19.50	....	2.25
Minneapolis	29.50	23.00	2.00†	1.85
Denver	30.00	.....	.95 (bu.)	95 (bu.)
Detroit	20.00	18.00	1.80†	1.60†
Seattle	30.00	.....	2.85†	.....
Los Angeles	2.75†	2.20†	2.75†	2.00†
Baltimore	23.75	.....	....	12.83‡
Montreal	25.00	25.00	15.00‡	15.00‡
Atlanta	22.50	.....	.....	.....
New Orleans	16.00	.....	2.35	.....

* 300-lb. barrels. †Per 180-lb. barrel. ‡ Per ton.

NOTE—Refund of 10c. per barrel with 25c per ton off on hydrated.

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f. o. b., exclusive of bags:

	Current	One Year Ago
Minneapolis (Rosendale)	$2.60	$1.45
Kansas City (Ft. Scott)	1.60	1.40
New Orleans	3.36	2.52
Atlanta (Magnolia)	1.90	....
Cincinnati (Louisville)	2.85	1.50
Boston (Rosedale)	2.35	

PORTLAND CEMENT—Current prices are for barrels in carload lots, *without* bags, to contractors:

	Current Without Bags	One Month Ago Without Bags	One Year Ago Without Bags
New York (del.)	$4.22@$4.25	$4.10	$2.30
Jersey City (del.)	4.25	3.22	2.27
Boston	3.32	3.32	2.42
Chicago	2.15	2.15	2.00
Pittsburgh	2.20	2.20	2.05
Cleveland	2.42	2.42	2.32
Detroit	3.00	3.00	2.08
Indianapolis	2.42	2.42	2.27
Toledo	2.28	2.28	2.12
Milwaukee	2.20	2.20	2.11
Duluth	2.20	2.20	2.10
Peoria	2.32	2.32	2.12
Cedar Rapids	2.40	2.40	2.18
Davenport	2.36	2.36	2.14
St. Louis	2.85	2.85	2.20
San Francisco	2.88	2.88	2.43
New Orleans	3.52	3.24	2.36
Minneapolis	3.30	2.42	2.20
Denver	3.80	3.80	2.67
Kansas City	2.76	2.76	2.26
Seattle	3.03	3.03	2.53
Dallas	2.92	2.15	2.03
Atlanta	2.70	2.70	2.50
Cincinnati	2.85	2.85	2.90
Los Angeles	3.10	3.10	2.78
Baltimore (del.)	4.56	3.28	.....
Montreal (including bags)	3.00	3.00	.....
Detroit	5.00	.....	.....

NOTE—Bag charge is generally 25c. each.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots.

PLAIN 4-INCH by 4-INCH MESH

Style Number	Sectional Area Square per Ft.	Width	Pittsburgh	New York*	Chicago	St. Louis	Dallas	San Francisco
032	0.032		$0.92	$1.16	$0.98	$0.99	$1.13	$1.32
049	0.049		1.18	1.48	1.26	1.26	1.43	1.67
068	0.068		1.44	1.86	1.53	1.56	1.79	2.06
093	0.093		1.85	2.39	1.97	2.00	2.41	2.65
126	0.126		2.28	3.02	2.43	2.47	2.92	3.28
153	0.153		2.72	3.59	2.90	2.95	3.48	3.93
180	0.180		3.12	4.13	3.33	3.39	3.99	.....
245	0.245		4.12	5.44	4.40	4.47	5.27	.....
287	0.287		4.76	6.29	5.08	5.16	6.10	6.86
336	0.336		5.52	7.30	5.89	5.99	7.06	.....
395	0.395		6.40	8.45	6.83	6.94	8.19	.....
PAVING								
036P	0.036		$0.71	$0.92	$0.76	$1.77	$0.80	.....
053P	0.053		1.00	1.28	1.06	1.08	1.12	.....
072P	0.072		1.26	1.66	1.34	1.37	1.46	.....
097P	0.097		1.62	2.12	1.73	1.76	1.88	.....
049R	0.049		1.00	1.28	1.06	1.08	1.12	.....
067R	0.067		1.26	1.65	1.34	1.37	1.46	.....
089R	0.089		1.62	3.11	1.73	1.76	1.88	.....

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths. Galvanized is about 10% higher.

Note—Practically no triangle mesh in New York market

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York‡ Current Carloads	New York‡ Less Carloads	Chicago	St. Louis	San Francisco	Dallas
27	233	$32.10	$32.20*	$33.60†	$35.00	$36.00	$32.75
26	250	33.45	33.65*	35.20†	36.00	.....	34.50
25	300	34.90	35.00*	36.90†	.....	39.00	36.75
24	340	36.50	36.65*	40.00†	39.00	44.00	39.25
22	450	39.60	39.80*	45.10†	.....	.....	43.30

* Delivered on job.

†Galvanized is $8 per 100 yd., additional.

Note—Practically no metal lath in New York market.

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.

ROLLED FROM BILLETS

In.	Mill Pittsburgh	New York Current	Chicago	Dallas	San Francisco
½ and larger	$2.35@3.75	$3.63@5.00	$3.37@4.00	$3.87	$4.75 $5.50
⅝	2.40@3.75	3.68@5.00	3.42@4.00	3.92	4.80 5.35
¾	2.45@3.75	3.73@5.00	3.47@4.05	3.97	4.95 5.40
⅞	2.60@3.75	3.88@5.00	3.62@4.20	4.12	5.00 5.55
1	2.85@3.75	4.13@5.00	4.07@4.60	4.57	5.05 5.80

Twisted bars cut to length take extra of 29½c. per 100 lb.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
½ in. and larger	$1.00	$1.00	$4.25	½	$1.25	$4.25	.....
⅝	4.05	4.05	4.30	⅝			
¾	4.10	4.10		¾			

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Block 3-inch	Paving Block 4-inch
New York (del)	$30.75	$25.00	$15.00	†48.50*	$52.50*
New Orleans	25.00	24.50	14.00	....	....
Chicago	16.00	15.00	12.00	39.51	....
St. Louis, salmon	16.00†	16.00	12.00	.....	37.00
Denver	17.00	17.00	14.00	.....	....
Dallas	22.07	24.00	18.57	.....	....
San Francisco	18.00	18.00	12.50	.....	44.38
Los Angeles	13.50	13.50	12.50	....	....
Boston	30.00	32.00	18.00	57.00	87.50
Minneapolis	24@25	21.00	13.00	.....	....
Kansas City	22.00	22.00	15.00	....	....
Seattle	15.00	15.00	15.00	48.00	53.50
Cincinnati	24.00	24.00	17.00	....	.....
Montreal (del.)	16.00	16.00	15.00	....	....
Detroit	23.00	23.00	20.00	40.00	48.00
Baltimore (del.)	20.00–25.00	22.50	18.00	40.00	44.00

*For paving blocks 3⅛x8⅛x3 and 3⅛x8⅛x4 respectively. †Hard brick $20.50 in St. Louis.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current on Trucks	New York One Year Ago	Chicago	St. Louis	San Francisco	Factory Perth Amboy N. J.
4x12x12	$0.2444*	$0.11475	$0.1516	None	$0.1425	.....
6x12x12	3259*	.153	.2.74	"	.1800	.....
8x12x12	4345*	.204	.2728	"	.2525	4358
10x12x12	.....	.....	.3411	"	.....	5447
12x12x12	.....	.....	.4093	"	.....	6537

*Partition title. Less 5% for cash, 15 days.

	4x12x12	8x12x12	12x12x12
Boston	$0.195	$0.372	$0.496
Minneapolis	.1152	.2016	.31-8
Cincinnati	.125	.2186	3286
Kansas City	No prices obtainable		
Denver	Quotations withdrawn		
Seattle	.09	.175	.30
Atlanta	.115	.19	.28
Los Angeles	.10	.175	....
New Orleans	.23	.28	.30
Detroit	20 per cent. off list		
Montreal	.22	.30	.36
Baltimore	2775	.49	627[illegible]

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pittsburgh	New York Current	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco
Beams, 3 to 15 in.	$2.45@3.10	$4.58	$3.47	$4.04	$3.97	$6.00
Channels, 3 to 15 in.	2.45@3.10	4.58	3.47	4.04	3.97	6.00
Angles, 3 to 6 in., ¼ in. thick	2.45@3.10	4.58	3.47	4.04	3.97	6.00
Tees, 3 in. and larger	2.45@3.75	4.63	3.52	4.09	4.02	6.00
Plates	2.65@4.00	4.78	3.67	4.24	4.17	6.60

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill Pittsburgh	New York Current	New York One Yr. Ago	Warehouse Chicago	Warehouse St. Louis	Warehouse San Francisco	Warehouse Dallas
½ in. and larger	$4.50	$6.00	$4.72	$5.62	$5.69	$7.05	$7.50

CONE HEAD BOILER

½ in. and larger	4.60	7.10	4.82	5.72	5.79	7.15	7.50
⅝ and ¾	4.75	7.25	4.97	5.87	5.94	7.40	7.50
⅞ and 1	5.00	7.50	5.32	6.22	6.19	7.65	7.75

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	New York	Chicago	San Francisco	Dallas	Montreal
Wire	$4.25	$8.50	$4.45	$6.45	$6.90	$4.95
Cut		10.00	8.00@10.00	8.50	6.40	5.00

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows at maufacturing points:

	New York 1-Ply c.l.	New York 2-Ply l.c.l.	New York 3-Ply c.l.	Philadelphia 1-Ply c.l.	Philadelphia 2-Ply l.c.l.	Philadelphia 3-Ply c.l.
No. 1 grade	$2.50	$3.00	$3.55	$2.40	$2.90	$3.45
No. 2 grade	2.25	2.70	3.20	2.15	2.60	3.10

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $4.25 per roll in carload lots and $4.50 for smaller quantities.

Shingles, red and green slate finish, cost $8.75 per square in carloads; $9.00 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

Tar felt (14 lb. per square of 100 sq.ft.) per roll	$3.50
Tar pitch (in 400-lb. bbl.) per 100 lb	2.00
Asphalt pitch (in barrels) per ton	54.50
Asphalt felt (light) per ton	123.00
Asphalt felt (heavy) per ton	127.00

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	New York — Current	New York — One Yr. Ago
No. 10	$3.55@$7.50	$7.09	$7.02	$8.65	$7.12@$8.00	$4.57
No. 12	3.60@7.55	7.09	7.07	8.70	7.17@8.05	4.62
No. 14	3.65@7.60	7.09	7.12	8.75	7.22@8.10	4.67
No. 16	3.75@7.70	7.09	7.17	8.85	7.32@8.20	4.77
Black						
*Nos. 18 and 20	4.15@8.30	8.10	7.80	10.60	8.30@9.80	5.30
*Nos. 22 and 24	4.20@8.35	8.10	7.85	10.65	8.35@9.85	5.35
*No. 26	4.25@8.40	8.10	7.90	10.70	8.40@9.90	5.40
No. 28	4.35@8.50	8.10	8.00	10.80	8.50@10.00	5.50
Galvanized						
No. 10	4.70@8.50	9.60	8.50		8.80@11.50	6.20
No. 12	4.80@8.60	9.60	8.60	11.35	8.90@11.50	6.25
No. 14	4.80@8.60	9.60	8.60	11.35	8.90@11.50	6.30
Nos. 18 and 20	5.10@8.90	9.60	8.90	11.65	9.15@11.90	6.60
Nos. 22 and 24	5.25@9.05	9.60	9.05	11.80	9.30@12.05	6.75
*No. 26	5.40@9.20	9.60	9.20	11.95	9.45@12.20	6.90
*No. 28	5.70@9.50	9.60	9.50	12.25	9.75@12.50	7.20

*For painted corrugated sheets add 30c. per 1000 lb. for 5 to 28 gage; 25c. for 10 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York — Current	New York — One Year Ago	Chicago — Current	Chicago — One Year Ago
Raw in barrel (5 bbl.)	$1.48	$1.86	$1.67	$2.05
5-gal. cans	1.51*	1.96	1.92	2.25

*To this price must be added the cost of the cans (returnable), $2.25 for case of six.

WHITE AND RED LEAD—Base price per pound:

	Red — Current Dry	Red — Current In Oil	Red — 1 Year Ago Dry	Red — 1 Year Ago In Oil	White — Current Dry and In Oil	White — 1 Yr. Ago Dry and In Oil
100-lb. keg	15.50	17.00	13.00	14.50	15.50	13.00
25 and 50-lb. kegs	15.75	17.25	13.25	14.75	15.75	13.25
12½-lb. keg	16.00	17.50	13.50	15.00	16.00	13.50
5-lb. cans	18.50	20.00	15.00	16.50	18.50	15.00
1-lb. cans	20.50	22.00	16.00	17.50	20.50	16.0

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots:

Lumber Prices in Yards at San Francisco

	6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	22 and 24 Ft.	25 to 32 Ft.
3x3 and 4	$36.50	$37.00	$38.00	$40.00
3x6 and 8	37.50	38.00	39.00	41.00
4x4 6 and 8	38.00	39.00	40.00	42.00
3x10 and 12	38.00	39.00	40.00	42.00
3x14	38.50	39.50	40.50	42.50
4x10 and 12	38.00	39.00	40.00	42.00
4x14	39.00	40.00	41.00	43.00

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$37.50	$39.50	$40.50
x14	39.00	41.00	41.50
8x10	37.50	39.50	40.50
8x14	39.00	41.00	41.50

New York, Chicago and St. Louis

	Southern Pine — New York* 20 Ft. and Under	New York* 22-24 Ft.	Chicago 20 Ft. and Under	Chicago 22-24 Ft.	Yellow Pine — St. Louis 20 Ft. and Under	St. Louis 22-24 Ft.
3x 4 to 8x 8	$53.00	$54.00	$68.00	$69.00	$50.00	$51.00
3x10 to 10x10	57.00	58.00	70.00	71.00	55.00	56.00
3x12 to 12x12	65.00	66.00	72.00	73.00	57.50	58.50
3x14 to 14x14	70.00	71.00	75.00	76.00	65.00	66.00
3x16 to 16x16	75.00	76.00	80.00	81.00	67.50	68.50
3x18 to 18x18	85.00	86.00	85.00	86.00	72.50	73.50
4x20 to 20x20	90.00	91.00	90.00	91.00		

*Prices from Lumbermen's Bureau New prices on Sept. 15

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under — P.	Fir	Hemlock	Spruce	12 x 12-In 20 Ft. and Under — P.	Fir
Boston	$73.00	$70.00		$65.00	$85.00	$75.00
Kansas City	51.00	51.25	$51.25	51.25	60.00	51.25
Seattle		34.00				35.00
New Orleans	47.00				55.00	
Atlanta	62.50	64.50	66.00	76.00	79.50	82.00
Baltimore	80.00				92.50	
Cincinnati	45.00	50.00	50.00		55.00	55.00
Montreal	87.00	87.00	70.00	85.00	79.00	110.00
Los Angeles		57.00				59.00
Detroit	67.00				79.00	79.00
Denver		43.75				44.75
Minneapolis		47.50	53.75			46.50

	1-In. Rough, 10 In. x 16 Ft. and Under — P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. — P.	Fir
Boston	$110.00		$52.00	$105.00	$85.00
Kansas City	102.00	106.50	106.50	113.00	112.75
Seattle		37.50			38.50
New Orleans	43.00			46.60	
Atlanta	85.00	90.00		77.50	87.50
Baltimore (box)	57.50@65			57.50@62.50	
Cincinnati	50.00	55.00	50.00	45.00	50.00
Montreal	80.00	80.00	70.00	85.00	85.00
Los Angeles		58.00			
Detroit	50.00		49.00	44.00	
Denver		42.75			40.25
Minneapolis		42.00	50.25		42.50

* Montreal—Up to 32 ft.; over which, $3.00 per M. increase up to 30 ft.

† Base price, 2 x 3's and 2 x 4's, 8 to 14 ft., is $54.00

Detroit—4 x 4 x 12, fir D, $50; rough fir, $53; 2 x 6 x 6, hemlock D sides, $50 2 x 12 x 18, rough fir, $52 50; 2 x 12 x 12, rough fir, $52; 2 x 4 x 16 fir D, $50

FREIGHT RATES

On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb., in carloads of 36,000 lb.:

Boston	$0.41½	New Orleans	$0.51½
Buffalo	.29½	New York	.38
Chicago	.38	Pacific Coast (all rail)	1.66½†
Cincinnati	.33	Philadelphia	.35
Cleveland	.24	St. Louis	.47½
Denver	1.35*	St. Paul	.69½
Kansas City	.81½	Detroit	.33
		Baltimore	.33½

Note—Add 3% transportation tax. * Minimum carload, 40,000 lb.
† Minimum carload, 50,000 lb., structural steel only

CONTRACTORS' SUPPLIES

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$4.00@$5.00	$2.55@3.65	$2.25

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Hercules red strand, all constructions	20%
Patent flattened strand, special and cast steel	20%
Patent flattened strand, iron rope	5%
Plow steel round strand rope	30%
Special steel round strand rope	30%
Cast steel round strand rope	22½%
Iron strand and iron tiller	5%
Galvanized iron rigging and guy rope	+12%

San Francisco: Galvanized Iron Rigging and Guy Ropes, +17½%; Bright Plow, 25% off.

Chicago, + 10 on galvanized, 22½ — 2½ off on bright.

MANILA ROPE—For rope smaller than ¼-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¼-in., 8 ft., ⅜-in., 6; ½-in., 4½; ⅝-in., 3½; ¾-in., 2 ft. 10 in.; ⅞-in., 2 ft. 4 in. Following is price per pound for ¼-in. and larger, in 1200-ft. coils:

Boston	$0.32½	Kansas City	0.30½
New York	.29½	New Orleans	$0.28½
Chicago	.27½	Los Angeles	.31
Minneapolis	.29	Seattle	.28
San Francisco	.27	St. Louis	.26½
Atlanta	.29½	Montreal	.37
Denver	.30	Detroit	.26
Cincinnati	.35	Baltimore	.28

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb keg for black powder

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%	Black Powder
New York	.....	$0.31½	$0.34½	.....	$2.30
Boston	.....	.28	31	$.34	
Kansas City	.2475	27	30	34	2.40
Seattle	.18	.20½	.22½	29½	2.60
Chicago	.2175	.2525	.2975	.34	2.45
Minneapolis	.2067	.2476	.2782	.....	2.80
St. Louis	.23	.27	.30	34.25	2.20
Denver	.2175	.2575	.2875	.33	2.70
Dallas	265*	.275	.3025	.....	2.60
Los Angeles	.22	.27	31	.....	2.95
Atlanta	.22	.245	.265	.....	2.55
Baltimore	No shipments or quotations				
Cincinnati	.2275	.2525	.2725	.....	2.30
Montreal	30	32	37	.38	4.10
New Orleans	.2425	.2825	.3125	.38	2.40

* 30 Per Cent

POLES—For spruce and plain pine poles, delivered New York, the price is as follows:

Spruce 10-in. butts, 5-in. tops, length 20-30 ft.	$8.50
Spruce 12-in. butts, 6-in. tops, length 30-40 ft.	10.50
Pine 12-in. butts, 6-in. tops, length 41-50 ft.	13.75
Pine 14-in. butts, 6-in. tops, length 51-60 ft.	22.50
Pine 14-in. butts, 6-in. tops, length 61-71 ft.	25.25

	Dallas
6-in. x 20-ft.	$4.60
6-in. x 30-ft.	7.10
8-in. x 30-ft.	8.45
8-in. x 35-ft.	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$30.00	$29.75	$28.50
Stove plate	26.00	28.75	30.50
No. 1 machinery cast	41.00	36.50	38.50
Machine shop turnings	15.00	9.75	13.00
Cast borings	17.00	13.25	16.00
Railroad malleable cast	30.00	28.75	29.50
Re-rolling rails	35.50	38.00@39.00	35.00
Relaying rails	54.00	57.50@62.50	50@55

SHIP SPIKES—Current prices per 100 lb.

	San Francisco		Seattle
In.	Galv.	Black	Black
½	$9.20	$8.50	$8.55
⅝	8.75	6.75	8.25
¾	8.60	6.60	8.30

Pittsburgh base, $4.40@$4.75 per 100 lb.

LABOR RATES AND CONDITIONS THROUGHOUT THE COUNTRY

S means scarce; E, enough; P, plentiful

Cities	Bricklayers	Carpenters	Hoisting Engineers	Hod Carriers	Pile Drivers	Structural Iron Workers	Common Labor	Remarks
Atlanta	$0.90S	$0.60-.75P	$0.50-.65P	$.40-.45P	$0.60-.65	$0.75	$0.35S	
Baltimore	1.00E	.80-.90E	.87½E	.46-.54E	.74E	1.00E	.35-.45E	Baltimore—Satisfactory supply of labor.
Boston	1.10P	1.00P	1.15@1.25P	.75P	1.25P	1.15@1.25P	.67½@.70P	Boston—Labor supply sufficient.
Cincinnati	1.25S	.90E	.75E	.70E	.....	.87½E	.60S	Cincinnati—Common labor scarce.
Chicago	1.25	1.25	.....	.....	.....	1.25	1.00	Chicago—Labor plentiful but independent. Contractors report increased efficiency.
Cleveland	1.00S	.90S	1.00E	.57½E	.80E	1.00E	.57½E	
Dallas	1.25S	1.00P	1.00E	.60E	1.00E	1.25S	.50@1.00P	Dallas—Common labor very scarce.
Denver	1.25E	1.16½E	1.16½@1.18½E	.75@81½E	.....	1.15½E	.50@.56½	Denver—No strikes pending.
Detroit	1.25P	1.00E	1.10P	.70E	1.10E	1.25P	.65E	Detroit—All classes of labor is plentiful owing to slackness in construction because of lack of material.
Kansas City	1.12½	1.00	1.00	.90	1.00	1.10	.75	
Los Angeles	1.25P	.87½P	.87½P	1.00P	.87½P	.87½P	.56½-.62½E	Los Angeles—Rates shown are union; non-union a little less; but union scale prevails generally.
Minneapolis	1.25	1.00P	1.00	.75	.....	1.00	.60	Minneapolis—Increase in common-labor wage expected in a few weeks.
Montreal	1.00	.80-.85S	.65S	.50@.60S	.50	.50-.65	.47½-.55P	Montreal—Harvesting in West taking many men from common labor ranks.
New Orleans	1.00E	.95E	1.00E	.50@.60E	1.00E	1.00E	.40E	New Orleans—Labor market in bad shape owing to many strikes.
New York	1.25	1.12½	1.25	.87½	1.12½	1.12½	.75-.80	New York—Agreement of Nov. 20, 1919, was modified as shown, effective May 1, 1920. Excavators, 75c.; Concrete workers, 81½c.
Pittsburgh	1.50	1.20	.90S	.80S	1.00	1.25S	.50S	Pittsburgh—Conditions almost normal.
St. Louis	1.25	1.25	1.12½-1.25	.70	1.00-1.25	1.25	.52-.75	St. Louis—Bricklayers' helpers receive 80c.; Carpenters' helpers, 67½c.; as to hoisting engineers the rates are $1.12½ for one drum, $1.25 for two drums, and $1.21½ for road roller. Pile drivers receive $1.00 on wood and concrete, $1.25 on steel. Unskilled labor is classified as follows: Common, 52c.; construction, 67½c.; pipe laying, 75c.; track, 53c. Material dealers striking for Union recognition has caused a lockout of practically all construction labor.
San Francisco	1.25E	1.12½E	1.12½E	1.00E	1.12½E	1.12½E	.81½E	San Francisco—Sufficient labor of the trades shown, but there is a scarcity of concrete workers.
Seattle	1.12	.93½	.94	75-.80	.90	1.00	.75S	

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Sept. 7	Hightstown, N. J. Adv. Aug. 26.	Aug. 26
Sept. 8	Tunica, Miss.	Aug. 19
Sept. 21	Norfolk, Va. Adv. Aug. 26 and Sept. 2.	Aug. 26
Sept. 23	Wauseon, O.	Sept. 2

SEWERS

Sept. 6	Princeton, Ind.	Sept. 2
Sept. 7	East Gary, Ind.	Sept. 2
Sept. 7	Patterson, N. J.	Aug. 26
Sept. 7	Plainfield, N. J. Adv. Aug. 26.	Aug. 26
Sept. 7	Wash., D. C.	Aug. 19
Sept. 7	Jersey City, N. J.	Sept. 2
Sept. 7	Bristol, Conn.	Sept. 2
Sept. 8	Baltimore, Md.	Sept. 2
Sept. 9	Montclair, N. J.	Sept. 2
Sept. 9	Wabasso, Minn.	Aug. 26
Sept. 10	Freeport, Minn.	Sept. 2
Sept. 16	Teaneck, N. J.	Sept. 2
Oct. 4	Pontiac, Mich.	Aug. 26

BRIDGES

Sept. 7	Nanty-Glo, Pa.	Aug. 26
Sept. 7	Indiana	Aug. 26
Sept. 10	Victoria, B. C.	Aug. 12
Sept. 11	Prescott, Ariz.	Sept. 2
Sept. 13	Belleville, Kan.	Aug. 26
Sept. 14	Floyd, Va.	Sept. 2
Sept. 14	Lock Haven, Pa. Adv. Aug. 26 and Sept. 2.	Aug. 26
Sept. 14	Perry, Ga.	Aug. 26
Sept. 15	Asbury Park, N. J. Adv. Sept. 2.	Sept. 2
Sept. 15	Portsmouth, N. H. Adv. Aug. 26 and Sept. 2.	Sept. 2
Sept. 15	Providence, R. I. Adv. Aug. 26 and Sept. 2.	Aug. 26
Sept. 15	Iola, Kan.	Aug. 26
Sept. 15	Portsmouth, N. H. Adv. Aug. 12 to Sept. 2.	Aug. 12
Sept. 18	Salisbury, N. B.	Sept. 2
Sept. 21	Union, W. Va.	Sept. 2
Sept. 30	New Orleans, La.	Aug. 26

STREETS AND ROADS

Sept. 6	El Centro, Cal.	Sept. 2
Sept. 6	Indiana	Aug. 19
Sept. 6	Bethany, Mo.	Aug. 26
Sept. 7	Indiana	Aug. 19
Sept. 7	Greenfield, Ind.	Aug. 12
Sept. 7	Aitkin, Minn.	Aug. 12
Sept. 7	Atlanta, Mich.	Aug. 26
Sept. 7	Carlton, Minn.	Aug. 26
Sept. 7	Red Bank, N. J. Adv. Aug. 26.	Aug. 26
Sept. 7	Missouri	Sept. 2
Sept. 7	York, Ont.	Sept. 2
Sept. 7	Maryland Adv. Sept. 2.	Sept. 2
Sept. 7	Munhall, Pa.	Sept. 2
Sept. 7	Huntington, W. Va.	Sept. 2
Sept. 8	Newark, N. J.	Sept. 2
Sept. 8	Rogers, Mich.	Sept. 2
Sept. 8	Cottonwood Falls, Kan.	Aug. 12
Sept. 8	Brooklyn, N. Y.	Sept. 2
Sept. 8	North Arlington (Arlington P. O.), N. J.	Aug. 26
Sept. 8	Washington, D. C. Adv. Aug. 26 and Sept. 2.	Sept. 2
Sept. 9	Poughkeepsie, N. Y. Adv. Sept. 2.	Sept. 2
Sept. 9	Dodge City, Kan.	Aug. 19
Sept. 9	Jersey City, N. J.	Aug. 26
Sept. 10	Shakopee, Minn.	Aug. 19
Sept. 10	Michigan	Sept. 2
Sept. 10	New Jersey Adv. Aug. 26 and Sept. 2	Aug. 26
Sept. 10	Missouri	Sept. 2
Sept. 10	Richmond, Mo.	Sept. 2
Sept. 13	Jasper, Tex.	Aug. 26
Sept. 13	Minneapolis, Minn.	Aug. 26
Sept. 14	Fergus Falls, Minn.	Aug. 19
Sept. 14	Newaygo, Mich.	Sept. 2
Sept. 14	Charleston, W. Va.	Aug. 19
Sept. 14	Garnett, Kan.	Aug. 19
Sept. 15	Clinton, Ia. Adv. Sept. 2.	Sept. 2
Sept. 16	Ontonagon, Mich.	Sept. 2
Sept. 16	Girard, Kan.	Aug. 26
Sept. 16	Franklin, Tex.	Sept. 2
Sept. 17	Lapeer, Mich.	Sept. 2
Sept. 20	Vanceboro, N. C.	Sept. 2
Sept. 21	St. George, S. C.	Aug. 12
Sept. 22	Charleston, W. Va.	Sept. 2
Sept. 28	Kaufman, Tex.	Sept. 2

EXCAVATION AND DREDGING

Sept. 7	Redwood Falls, Minn.	Sept. 2
Sept. 10	Corsica, S. D. Adv. Aug. 19 to Sept. 2.	Aug. 19
Sept. 10	Granite Falls, Minn.	Sept. 2
Sept. 11	Latham, Ill.	Sept. 2
Sept. 13	Pontiac, Mich. Adv. Sept. 2.	Sept. 2
Sept. 14	Patterson, N. J.	Sept. 2
Sept. 14	Ft. Dodge, Ia.	Sept. 2
Sept. 27	Eudora, Ark. Adv. Sept. 2.	Sept. 2

INDUSTRIAL WORKS

Sept. 6	Jacksonville, Fla.	Sept. 2
Sept. 6	Kansas City, Mo.	Sept. 2
Sept. 7	Cleveland, O.	Sept. 2
Sept. 7	New Orleans, La. Adv. Aug. 26 and Sept. 2.	Aug. 26
Sept. 7	New York, N. Y.	Aug. 26
Sept. 8	Minnewaukan, N. D.	Aug. 26
Sept. 11	Watford, Ont.	Sept. 2
Sept. 15	Ossining, N. Y.	Aug. 19
Sept. 17	Wakeeney, Kan.	Sept. 2
Sept. 29	Buffalo, N. Y.	Aug. 26

BUILDINGS

Sept. 6	Detroit, Mich.	Aug. 26
Sept. 6	London, Ont.	Sept. 2
Sept. 7	Hartford, Conn.	Aug. 26
Sept. 7	Marmarth, N. D.	Aug. 19
Sept. 7	Windsor, Conn.	Aug. 19
Sept. 7	Haston, Col.	Sept. 2
Sept. 8	Kansas City, Kan.	Sept. 2
Sept. 8	Wash., D. C.	Aug. 19
Sept. 8	Detroit, Mich.	Aug. 26
Sept. 8	Vincennes, Ind. Adv. Aug. 19 to Sept. 2.	Sept. 2
Sept. 9	New York, N. Y.	Sept. 2
Sept. 10	West Hartford (Hartford P. O.), Conn.	Aug. 19
Sept. 10	Great Neck, N. Y.	Aug. 26
Sept. 10	Athol, Mass.	Sept. 2
Sept. 11	London, Ont.	Sept. 2
Sept. 14	Erie, Pa.	Sept. 2
Sept. 14	Marmarth, N. D.	Sept. 2
Sept. 14	Montevideo, Minn.	Aug. 26
Sept. 14	Glassboro, N. J.	Aug. 26
Sept. 15	Edinburg, Tex.	Aug. 26
Sept. 15	Fond du Lac, Wis.	Sept. 2
Sept. 15	Ossining, N. Y.	Aug. 26
Sept. 15	Denver, Col.	Aug. 12
Sept. 15	Denver, Col.	Aug. 5
Sept. 20	Brooklyn, N. Y.	Aug. 26
Sept. 21	Springfield, O.	Sept. 2
Sept. 22	Wiota, Ia.	Sept. 2
Oct. 1	Granite City, Ill.	Sept. 2
Oct. 12	Huron, S. D.	Sept. 2

FEDERAL GOVERNMENT WORK

Sept. 7	Removing Wreck—Wilmington, Del. Adv. Aug. 26 and Sept. 2.	Aug. 26
Sept. 8	Improving Hospital—Spec. 4262—Paris Island, S. C.	Aug. 26
Sept. 9	Structural Steel—Louisville, Ky. Adv. Aug. 19 to Sept. 2.	Aug. 26
Sept. 9	Road Work—Arizona	Sept. 2
Sept. 11	Mechanic Shop, etc., Mare Island, Cal.	Sept. 2
Sept. 13	Barges—Nashville, Tenn. Adv. Aug. 19 to Sept. 2.	Aug. 26
Sept. 14	Electric Freight Lift etc.—St. Paul, Minn.	Aug. 26
Sept. 15	Lifeboat House and Accessories—Marblehead, O.	Aug. 26
Sept. 15	Pontoon Catamarans—Jacksonville, Fla. Adv. Aug. 26 and Sept. 2.	Aug. 26
Sept. 15	Remodeling Post Office and Courthouse—Freeport, Ill.	Sept. 2
Sept. 15	Jetty—Jacksonville, Fla. Adv. Aug. 19 to Sept. 2.	Aug. 26
Sept. 16	Jetty—New Orleans, La. Adv. Aug. 19 to Sept. 2.	Aug. 19
Sept. 21	Sound Deadening Wall and Ceiling Covering—Wilmington, N. C.	Sept. 2
Sept. 23	Refrigerating Machine — New Orleans, La.	Sept. 2
Sept. 25	Harbor Development—Spec. 4136—Great Lakes, Ill.	Aug. 19
Sept. 30	Metal Work—Key West, Fla. Adv. Aug. 26 and Sept. 2.	Sept. 2
Sept. 6	Retaining Wall, etc.—Cleveland, O.	Aug. 12

MISCELLANEOUS

Bids Close		See Eng. News-Record
Sept. 6	Paving Materials—St. Paul, Minn.	Sept. 2
Sept. 7	Cleaning Machine—Newark, N. J.	Sept. 2
Sept. 7	Marvia and Crushed Stone—Bloomfield, N. J.	Sept. 2
Sept. 7	Dikes—St. Louis, Mo.	Aug. 19
Sept. 7	Wharf—Thessalon, Ont.	Aug. 26
Sept. 8	Breakwater—West Chezzetcook, N. S.	Aug. 26
Sept. 8	Installing Domestic Hot Water System—Bath, N. Y.	Aug. 26
Sept. 8	Fire Alarm System—Baltimore, Md.	Sept. 2
Sept. 9	Terminal—Buffalo, N. Y. Adv. Aug. 5 to 26.	Aug. 12
Sept. 9	Terminal — Rouses Point, N. Y. Adv. Aug. 5 to Sept. 2.	Aug. 12
Sept. 9	Bulkheads and Jetties—New York, N. Y.	Sept. 2
Sept. 9	Coal Conveyor—New York, N. Y.	Sept. 2
Sept. 10	Breakwater — Port Colborne, Ont.	Sept. 2
Sept. 11	Lighting System—London, Ont.	Sept. 2
Sept. 14	Foundation—Phila., Pa. Adv. Aug. 5 to Sept. 2.	Aug. 26
Sept. 14	Gate Valves, Sleeves, etc. —Detroit, Mich.	Sept. 2
Sept. 14	Breakwater—Port Maitland-N. S.	Sept. 2
Sept. 14	Pier—Toronto, Ont.	Sept. 2
Sept. 15	Retaining Wall — Asbury Park, N. J. Adv. Sept. 2.	Sept. 2
Sept. 15	Lighting Equipment—Detroit, Mich.	Aug. 26
Sept. 20	Sewer Cleaner—Lockport, N. Y. Adv. Sept. 2.	Sept. 2
Sept. 21	Dam, Pump House, etc.—Norfolk, Va. Adv. Aug. 19 to Sept. 2.	Aug. 26
Sept. 21	Shafts—New York, N. Y. Adv. Sept. 2.	Sept. 2
Sept. 22	Breakwater—Chicago, Ill. Adv. Aug. 26 and Sept. 2	Aug. 19
Sept. 30	Transformers, etc.—Sacramento, Cal.	Aug. 19

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. H., North Stratford—Town soon lets contract extending waterworks. About $75,000. S. Moore, Lancaster, engr.

S. C., Greenville—City voted $100,000 bonds to extend waterworks system. A. Perry, Greenville, engr.

O., Bellaire—City plans to issue $30,000 bonds to improve waterworks system. G. W. Althar, clk.

Neb., Sidney—City plans to build waterworks system. About $126,000. Engineer will be selected at once.

Wyo., Douglas—City voted $75,000 bonds to build filtering system and gathering lines for supply system extending from North Platte River above mouth of Antelope Creek to Douglas. About $66,000. A. Cummings, Douglas, consult. engr.

Wyo., Rawlins—City having preliminary investigations and surveys made by C. C. Carlisle, engr., Cheyenne, for three sources of water supply. Work will include complete system for bringing water to city either from Platte River, Sage Creek or Horse Shoe Bend.

Mont., Roundup—City plans to extend water mains to new residential section and replace old mains in business section. About $25,000.

Okla., Purcell—City plans election soon to vote on $382,000 bonds to build new water supply system, filteration plant, lay extensions to water mains, improve electric light plant and build sanitary sewer extensions. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs. Noted June 17.

Waterworks (Continued)

Okla., Stigler—City had preliminary plans prepared for extensions to waterworks system, to include water purification plant, pumping station, etc. About $35,000. G. Melton, clk. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma, engrs.

BIDS DESIRED

O., Wauseon—Until Sept. 23, by Bd. Trustees of Pub. Affairs, furnishing labor and material for constructing certain improvements to waterworks system, including rapid sand, gravity filter plant and appurtenances, consisting of 2 units of 375,000 gal. each with provision for 2 additional units later. J. King, clk.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Brockton**—City let contract building filter beds, involving 43,780 ft. 6 in. segmental block pipe, vitr. channel, 47,225 lb. steel, 516 cu.yd. reinforcing concrete, 541 cu.yd. concrete, 7,050 cu.yd. earth trenching, 1 acre sprinkling filter, and 19,500 tons crushed stone, to G. Howard & Sons Co., 153 Main St., $155,208.

★**N. Y., Brooklyn**—N. J. Hayes, comr. water supply, gas and electricity, Municipal Bldg., New York City, let contract hauling and laying watermains and appurtenances in Brighton Beach, Coney Island and Neptune Aves., here, to Pallidino Contg. Co., 2154 1st Ave., New York City, $10,896. Noted Aug. 12.

★**N. Y., Long Island City**—N. J. Hayes, comr. water, gas and electricity, Municipal Bldg., New York City, let contract hauling and laying watermains and appurtenances in Nott and 16th Aves., Sherman St., Maxwell and 59th Aves., Murray and 25th Sts. and in head of Vleigh and 76th Rds., Queens Boro., to Pallidino Contg. Co., 2154 1st Ave., New York City, $7,859. Noted Aug. 12.

★**N. Y., S. I., St. George**—N. J. Hayes, comr. water, gas, and electricity, Municipal Bldg., New York City, let contract hauling and laying watermains and appurtenances in Barnard St., Bradley, Chicago, Davis, Egbert, Holland Mada, St. Marys and Winant Aves., Duer Lane, Maple Parkway and Continental Pl., Richmond Boro., to Pallidino Contg. Co., 2154 1st Ave., New York City, $17,550. Noted Aug. 12.

Sewers

PROPOSED WORK

Me., Lewiston—See "Industrial Works."

S. C., Greenville—See "Streets and Roads."

Neb., Wauneta—City having plans prepared by E. T. Archer & Co., engrs., 609 New Eng. Bldg., Kansas City, Mo., for building sewers in three blocks. About $25,000.

Okla., Purcell—See "Waterworks."

BIDS DESIRED

Conn., Bristol—Until Sept. 7, by Pub. Wks. Dept., building 500 ft. sewer in Muzzy St., 1,025 ft. Atkins Ave., 500 ft. Wolcott St., 250 ft. Curtiss St., 1,000 ft. Sect. "A" Burlington Ave., 2,250 ft. Sect. B, 600 ft. Lewis St., 650 ft. Union St., all vitr. pipe. Sperry & Buell, 175 Main St., engrs.

N. J., Jersey City—Until Sept. 7, by Bd. City Commrs., building sewerage system in Fisk St. drainage area. F. A. Dolan, clk.

N. J., Montclair—Until Sept. 9, by Bd. Town Comrs., building section of Lorraine Ave. underground drain or storm sewer, extending in Grove St. and Lorraine Ave. to Park St., to include catch basins, manholes, etc. H. Trippert, clk.

N. J., Teaneck—Until Sept. 16, by Township Com., Bergen Co., building sewerage system and sewage treatment works. R. J. Lewis, clk.; advertised in this issue.

Md., Baltimore—Until Sept. 8, by Bd. Awards, c/o City Register, building hydrolytic tank and appurtenances, sludge digestion tank, pipe lines and appurtenances, at Sewage Disposal Wks., west shore, Back River, Baltimore Co. Former bids rejected. H. G. Perring, ch. engr. Noted Aug. 12.

Ind., East Gary—Until Sept. 7, at office of C. P. Papka, town clk., furnishing labor and material for building Sewer Dist. 1, involving 9,397 lin.ft. 10-24 in. vitr. pipe. About $44,763.

Ind., Princeton—Until Sept. 6, by Common Council, Bway. and Princeton St., building sanitary sewage disposal plant. About $41,850. C. E. McCormick, city clk.

Minn., Freeport—Until Sept. 10, by F. Reiland, village recdr., building 2 mi. sanitary sewerage system, involving 4,916 lin. ft. 8 in. vitr. pipe, 936 lin. ft. 10 in. vitr. sewer pipe, 110 lin. ft. 8 in. Class A c.i. water pipe, 667 lin. ft. trench 6-12 ft. deep. About $30,000. Bradley Eng. Co., St. Cloud, engrs. Noted July 15.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract building sewers in Saville and Wren Sts., to J. Barletta, 10 Whipple Ave., $40,962.

N. Y., Brooklyn—E. Riegelmann boro. pres. received bids Aug. 26, building sewer in (1) East 37th St. from Ave. L south to Long Island R.R., (2) East 15th St. from end of existing sewer to point about 380 ft. south of Ave. I and Ave. J, building sewer basin at southwest corner of (3) 47th St. and old New Utrecht Ave., (4) Benson Ave. at north and east corners of Bay 11th St., (5) 19th Ave. at easterly corner of 67th St., (6) Sheepshead Bay Rd., from Tomassetti Constr. Co. (1) $3,331, (2) $3,971, (3) $375, (4) $720, (5) $360, (6) $350; Murphy Bros., (1) $3,756, (2) $4,274; J. Jennings, Seaside, L. I., (1) $4,136, (2) $5,114, (3) $200 (4) $1,200, (5) $435, (6) $396. Noted Aug. 19.

★**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro., let contract building sewer in Flushing Ave. from Collins to Clermont Aves., to Rotti & Co., Woodhaven, $16,984; Prospect St., to Peace Bros., 20 Main St., Flushing, $3,933; Laurel Hill Ave., to F. L. Paino, Woodhaven, $440,292. Noted Aug. 26.

N. Y., S. I., St. George—C. D. Van Name, pres. Richmond Boro., received bids Aug. 23, building temporary sanitary sewer in Seaside Blvd. from Sea Ave. to point 3,000 ft. west of Sand Lane, from J. Johnson Sons, $133,258. Noted Aug. 19.

★**Pa., Phila.**—City let contract building sewer in Delaware Ave., from Snyder to Porter Sts., involving 2,300 ft. concrete pipe, to W. H. Garson, 5033 Brown St., $149,230.

O., Cleveland Heights (Warrensville, P. O.)—Village received only bid building sewer in Cumberland Ave. from Lee to Mayfield Rds., involving 5,140 ft. 8-24 in. vitr. pipe, from A. Marra, 345 The Arcade, Cleveland, $31,353.

★**Wis., Darlington**—City let contract furnishing material and excavating and laying 8,500 lin. ft. 10-24 in. vitr. pipe, in Main and Galena Sts., to E. A. Sweeney, Main St., Reedsburg. Cost between $25,000 and $30,000. Noted July 29.

Bridges

PROPOSED WORK

Mo., Kansas City—Bd. Pub. Wks., c/o F. E. McCabe, secy., City Hall, having preliminary plans prepared for rein.-con. bridge over Blue River, on Washington Park Blvd. Rd. About $200,000. Hedrick & Huff, Interstate Bldg., engrs. Noted March 25.

Tex., Bonham—Bonham Red River Bridge Comn. opens bids about Sept. 20, building bridge over Red River. Former bids rejected. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs. Noted Aug. 5.

Tex., Del Rio—Val Verde Co. had plans prepared building 500 ft. highwater bridge, 18 ft. wide, over Pecos River, to have three 150 ft. steel truss spans with concrete piers and abutments. About $194,381. G. M. Sowers, Del Rio, co. engr.

Ont., Port Stanley—See "Miscellaneous."

BIDS DESIRED

N. H., Portsmouth—Until Sept. 15, by Piscataqua River Bridge Com., City Hall, building 2 piers and 2 abutments for bridge to be built across Piscataqua River between here and Kittery, Me. J. H. Bartlett, secy.; advertised in this issue.

N. J., Asbury Park—Until Sept. 15, by A. G. King, city clk., furnishing labor and material building bridge flume and dam at easterly end of Deal Lake on boundary line between here and Ocean Twp.; advertised in this issue.

W. Va., Union—Until Sept. 21, by E. S. McNeer, clk. Monroe Co. building 80 ft. rein.-con. one-span bridge over Potts Creek, at Bradley Siding, about 2 mi. below Waiteville. J. H. Sydenstricker, co. engr.

Ariz., Prescott—Until Sept. 11, by T. H. Maddock, state engr., c/o Bd. Supervs. Yavapai Co., building 85 ft. rein.-con. bridge, to have two 42½ in. spans, across Granite Creek, on Sect. 4, Prescott-Jerome Highway, Federal Aid Project 19B, involving 400 cu.yd. excav., 300 cu.yd. concrete and 29,000 lb. reinforcing steel.

N. B., Salisbury—Until Sept. 18, by C. B. Brown, ch. engr., Canadian Natl. Rys., Moncton, building 2 abutments and 1 pier for railway bridge over Petitcodiac River, near here. About $60,000.

Ont., Hamilton—Until Sept. 7, by W. A. McLean, deputy minister of highways, Toronto building following work on Toronto-Hamilton and Provincial Highways, entering this city: steel superstructures for Bridges 1, 2 and 3, Contr. 139, 140 and 141, excav., pile driving and constructing concrete substructures and floors for Bridges 1, 2 and 3, Contr. 142, 143 and 144, fencing, clearing, grubbing and grading entire entrance, Contr. 145. About $200,000. S. Hogarth, Parliament Bldgs., Toronto, ch. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Me., Biddeford—York Co. and State Highway Comm., Augusta, received bids building Bway Bridge, rein.-con., on Elm St., here, from Rendle-Stoddard Co., 321 Marginal St., Chelsea, Mass., $128,250; J. H. Kerr, Rumford, $134,721; Sanders Eng. Co., 102 Exchange St., Portland, $144,500.

★**Mass., Andover**—Town and Essex Co., c/o Bd. Selectmen, Andover, let contract building rein.-con. bridge over Shawsheen River, on Haverhill St., to Collins Constr. Co., Andover, $39,200.

★**Minn., Cambridge**—Isanti Co. let contract building State Bridge 3332, to have three 18 x 75 ft. truss spans on rein.-con. abutments and gravity piers, to M. A. Adams & Co., 928 Andrus Bldg., Minneapolis, $29,874. Noted Aug. 26.

★**Mo., St. Joseph**—Buchanan Co. will build culverts and 5 bridges on 20.02 mi. St. Joseph—Atchison Rd., State Rd. Project 49. Work will be done by day labor. Noted Aug. 5 under "Streets & Roads".

★**Idaho**—State Highway Dept., Boise, let contract building four 40 ft. and two 32 ft. concrete span bridges, 18 ft. roadways, over Bonners Ferry, Bonner Co. line, Federal Aid Project 20, Boundary Co., to C. A. McClung, East 904 Mission Ave., Spokane, Wash., $34,750.

★**Idaho, Boise**—State Highway Dept., let contracts to Security Bridge Co., Lewiston, building 560 ft. steel spanbridge to have four 40 ft. spans, pile trestle approaches and 18 ft. roadway, over Walters Ferry, in Canyon and Owyhee Counties, $64,800; 420 ft. steel span bridge, to have three 140 ft. spans, pile trestle approaches and 18 ft. roadway, at Grandview, Ada and Owyhee Counties, $50,900. Noted Aug. 12.

Streets and Roads

PROPOSED WORK

Me., Lewiston—See. "Industrial Works."

Massachusetts—State Highway Comn., Boston, soon lets contract biulding 5,032 ft. Mountain Rd., Holyoke, cost $50,000; 2,100 ft. state highway, Dracut; 3,700 ft., Agawam Twp., all btuminous macadam.

Mass., Boston—City soon receives bids building 952 ft. Cushman Rd., 40 ft. wide. About $25,000.

Mass., Boston—Pub. Wks. Dept. soon lets contract paving Albany St., granite block. Cost to exceed $50,000.

Mass., Fall River—City plans to resurface various streets. About $75,000 appropriated for project.

Maryland—State Rds. Comn., 601 Garrett Bldg., Baltimore, plans to build lateral road from Elk Mills to Cherry Hill, Fair Hill to Appleton, St. Augustine to Cayots Corner, Cecilton to Earlville, state road from Port Deposit to Perryville, Calvert to Fair Hill, Cecil Co.; lateral road through Mt. Rainier, along 34th St., state road, Central Ave. to Halls Sta., Defense Highway to Anne Arundel Co. line, Prince Georges Co.; lateral road from Middleburg Pike, Hagerstown north to Pennsylvania line state road from end of Contr. W-17 into Keedysville, Williamsport Pike, Hagerstown south to Williamsport, Washington Co. J. N. Mackall, state highway engr.

Md., Baltimore—Bd. Awards, care of City Register, rejected bids received Aug. 18, grading, curbing and paving Lanvale St. Lauretta, Wheeler, Warwick, Oswego and Charlotte Aves., Contr. 178. Noted Aug. 12.

Streets and Roads (Continued)

Va., Wise—Wise Co. plans to expend $700,000 to rebuild roads in Richmond and Gladville Dists. O. H. Beverly, co. engr.

W. Va., Ripley—Jackson Co. voted $130,000 bonds to grade and pave 10 mi. Charleston-Columbus Turnpike. N. F. Hathway, Ripley, engr. Noted Aug. 5.

S. C., Greenville—City voted $100,000 bonds to pave, curb and build storm sewers in various streets. W. D. Neves, Greenville, engr.

Wis., Juneau—Dodge Co. plans to pave 5.7 mi. various roads, 18 ft. wide, concrete. About $100,000. Engineer not selected.

S. D., Flandreau—Town plans election in fall or spring, to vote on $135,000 bonds to grade and pave various streets, asphaltic concrete, bitulithic, creosoted wood block and concrete. L. P. Wolff, 1001 Guardian Life Bldg., St. Paul, Minn., engr.

Okla., Ada—City having preliminary plans prepared paving various streets in Dists. 6 and 11. About $850,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs. Noted April 1.

Okla., Purcell—City having plans prepared paving various streets in residential district. About $200,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

Oregon—State Highway Comm., Salem, soon receives bids paving, grading, surfacing and building bridges and trestles, etc., on following main trunk roads: Pacific Highway, 9.7 mi. macadam, cost $117,000, 158 mi. pavement, $4,375,250, 17 bridges, $943,000, and grading, $4,500; Pacific Highway (west side), 14.7 mi. grading, $102,900, 45.6 mi. paving, $1,469,000, bridges, $174,250; Tualatin Highway, 14.7 mi. paving, $407,500, 4 bridges, $100,000; Columbia River Highway, 28 mi. macadam, $317,000, 38 mi. paving, $1,074,000, and 1 bridge, $100,000; McMinnville-Tillamook Highway, 13.6 mi. macadam, $158,000, 10 mi. paving, $300,000, and 5 bridges, $34,250; Old Oregon Trail, 122.7 mi. grading, $947,500, 157.5 macadam, $1,244,400, and 24 bridges, $452,600; John Day Highway, 158 mi. grading, $958,000, 233.4 mi. macadam, $1,878,200, and 3 bridges, $120,500; Dalles-California Highway, 180 mi. grading, $884,000, 180 mi. macadam, $1,440,000, and 2 bridges, $88,000; Crater Lake Rd., 54 mi. grading, $318,000, 79 mi. macadam, $632,000, and 11 bridges, $165,000; Roseburg-Coo Bay Rd., 48 mi. grading, $240,000, 62 mi. macadam, $496,000, 8 mi. paving, $240,000, and 4 bridges, $122,000. H. Nunn, Salem, state highway engr.

Ont., York—Township opens bids about Oct. 1, building 10 mi. concrete sidewalks and curbs on Humber Blvd. Bee Caledonia and Dundurn Sts., Eileen, Miller, McNab, Oakwood and Southport Aves., Graham, Spadina, Vaughan and Weston Rds. About $79,090. F. Barber, 40 Jarvis St., Toronto, engr.

BIDS DESIRED

N. Y., Brooklyn—Until Sept. 8, E. Riegelmann, boro. pres., regulating and repaving with permanent Grade 1 granite on 6 in. concrete foundation, roadway of Ferris St. from King to Coffey Sts., Sullivan St. from point 519 ft. west of Ferris to Ferris St., with permanent Durax block on 6 in. concrete foundation. Van Dyke St. from Ferris to Conover Sts., with Grade 1 granite on present concrete foundation, 3rd St. from Bond St. to 4th Ave., regulating, grading, curbing and laying sidewalks on Ave. I from East 26th to East 28th Sts., regulating, grading, curbing, laying sidewalks and paving with preliminary bituminous macadam. Neptune Ave. from Stillwell Ave. to West 15th St., also furnishing and delivering 40,000 wood paving blocks.

N. Y., Poughkeepsie—Until Sept. 9, by Bd. Pub. Wks., Eastman Park Mansion, for 980 cu.yd. concrete pavement, 1,870 cu.yd. concrete foundation and relaying 900 sq.yd. brick pavement in trolley area on Main St. east of Cherry St.; advertised in this issue.

N. J., Newark—Until Sept. 8, by Joint Bridge Com., Essex Co. and Hudson Co. (Jersey City), repaving Bridge St. Bridge over Passaic River, also Clay St. Bridge, over Passaic River. F. E. Ward, clk.

Pa., Munhall—Until Sept. 7, by Boro. Clerk, building concrete pavement with concrete curbing on 600 ft. Maple St. from 18th to 20th Sts.; 400 ft. 19th Ave. from east side of Maple St. to boro line between Homestead and Munhall Boros.; 370 ft. 20th Ave. on east side of Maple St. eastward to boro. line between Homestead and Munhall Boros. Work involves 1460 cu.yd excav., 772 lin.ft. curbing and 5428 sq.yd. concrete roadway.

Maryland—Until Sept. 7, by State Rds. Comn., 601 Garrett Bldg., Baltimore, building .5 mi. state highway through town of Mt. Rainier. Contr. P-21. J. N. Mackall, chn.; advertised in this issue.

D. C., Wash.—Until Sept. 8, by Dist. Comrs., Dist. Bldg., paving various roadways with bituminous macadam. L. Brownlow, comr.; advertised in this issue.

W. Va., Charleston—Until Sept. 22 by Kanawha Co., grading and draining 4.55 mi. Indian Creek Rd. L. C. Massey, clk.

W. Va., Huntington—Until Sept. 7 by City Comrs grading, curbing and paving 14th St from Washington to Madison Aves., 2d St. from 10th to 11th Aves., 2½ alley from 20th to 21st Sts. A. B. Maupin, city engr.

N. C., Vanceboro—Until Sept. 20, by Mayor, paving about 14,000 sq.yd. main streets. R. R. Eagle, New Bern, engr.

Michigan—Until Sept. 10, at Dist. Office, State Highway Dept., Port Huron, grading and draining 5.72 mi. State Trunk Line Rd. 27-13, involving 13,458 cu.yd. earth excav., 462 cu.yd. concrete in culverts, 11,150 lb. steel reinforcement, etc.

Mich., Lapeer—Until Sept. 17, by Bd. Rd. Comrs. Lapeer Co., grading, surfacing and drainage 2.993 mi. State Trunk Line Rd. 21-12, 16 ft. wide, involving 14,274 cu.yd. earth excav., 28,093 sq.yd. gravel, etc. Former bids rejected. State Highway Dept., Lansing, engrs. Noted Aug. 5.

Mich., Newaygo—Until Sept. 14, by Bd. Rd. Comrs. Newaygo Co., grading, surfacing and draining 2.561 mi. State Trunk Line Rd. 24-4, Sect. A, 16 ft. wide, involving 14,211 cu.yd. earth excav., 24,024 sq.yd. gravel, etc. State Highway Dept., Lansing, engrs.

Mich., Ontonagon—Until Sept. 16, by Comrs. Ontonagon Co., grading, surfacing and draining 2.865 mi. State Trunk Line Rd. 68-1, Sect. A, 16-20 ft. wide, involving 6.226 cu.yd. earth excav., 26,981.5 cu. yd. concrete, bituminous concrete, waterbound macadam or bituminous macadam. State Highway Dept., Lansing, engrs. Noted Aug. 5.

Mich., Rogers—Until Sept. 8, by Comrs. Presque Isle Co., grading, gravel surfacing and draining 2.99 mi. State Trunk Line Rd. 10-24, Sect. A, 16 ft. wide, involving 24,300 cu.yd. earth excav., 28,656 sq.yd. gravel, 153.5 cu.yd. concrete in culverts, etc.

Ia., Clinton—Until Sept. 15, by J. W. Strohm, aud. Clinton Co., grading, paving and draining Clinton, De Witt, Grand Mound Rd. from here west to section line between Sects. 14-15, T. 81, R. 3, E.; advertised in this issue.

Missouri—Until Sept. 7, by State Highway Dept., Bolivar, building 13.864 mi. Bolinger-Springfield Rd. (Springfield Special Rd. Dist.), 24 ft. wide, Federal Aid Project 33, Polk Co., involving 52,030 cu.yd. earth and 3,555 cu.yd. rock excav., 4,050 cu.yd. borrow, 370.42 cu.yd. Class "B" and 168.6 cu.yd. Class "C" concrete masonry, 22,931 lb. reinforcement for concrete masonry, 124.2 cu.yd. cement rubble masonry, 51,107 sq.yd. 10½ in. and 47,976 sq.yd. 5½ in. gravel pavement, clay bound, etc. About $90,496.

Missouri—Until Sept. 10, by State Highway Dept., Richmond, building 2.04 mi. State Rd. from Richmond east, 24 ft. wide, State Aid Project S. 20.5, Ray Co., involving 20,467 cu.yd. earth excav., 119 cu.yd. Class "B" and 16.8 cu.yd. Class "C" concrete masonry, 9,840 lb. reinforcement for concrete masonry. About $25,000.

Mo., Richmond—Until Sept. 10, by Ray Co., paving 2 mi. road, east of here, 18 ft. wide, concrete. About $23,774. Leslie-Barnes Eng. Co., Amer Natl. Bank Bldg., St. Joseph, engrs.

Tex., Franklin—Until Sept. 16, by Comrs. Robertson Co., grading, surfacing, draining and building steel span bridges on 17.99 mi. Highway 14 from Nesbit to point 2 mi. north of Wheelock, 15 ft. wide. Work involves 83,797 cu.yd. borrow, 35,954 cu.yd. earth and 944 cu.yd. structural excav., 1,285.1 cu.yd concrete in bridges and culverts, 35,050 cu.yd. gravel, 10[illegible],740 lb. reinforcing and 145,200 lb. structural steel. About $209,455. L. Acker, Nacogdoches, engr. Noted May 20.

Tex., Kaufman—Until Sept. [illegible] Comrs. Kaufman Co., grading, str[illegible] and draining 10.76 mi. Highway 40, t[illegible] Precinct 8, 15 ft. wide, involving [illegible] cu.yd. earth borrow, 9,722 cu.yd. ear[illegible] 450 cu.yd. structural excav., 94.4 [illegible] Class "A" concrete, 19,185 cu.yd. [illegible] 19,223 lb. structural and 7,016 lb. [illegible] forcing steel, etc., cost $113,158; 16[illegible] Highway 15, Federal Aid Project [illegible] ft. wide, 15,382 cu.yd. borrow, and [illegible] cu.yd. earth excav., 95 cu.yd. concre[illegible] 552 gal. bituminous macadam, 20,6[illegible] yd. gravel, 4,907 lb. structural and [illegible] lb. reinforcing steel, etc., $177,250 [illegible] lett Ranney, co. engrs.

Cal., El Centro—Until Sept. 6, by [illegible] Supervs. Imperial Co., paving 28.5[illegible] highways. Warrenite or concrete. [illegible] grading will be done by county forces.

Ont., York—Until Sept. 7, by F. Barl[illegible] twp. engr., 40 Jarvis St., Toronto, [illegible] 1¾ mi. Arlington, Atlas, Barrie, Le[illegible] Miller and Wychwood Aves., Dufferin St. Earnscliffe and Rushton Rds., involving [illegible] 000 sq.yd. asphalt or bituminous macad[illegible] About $127,730.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Maine**—State Highway Comn., Augusta, let contract graveling 5.18 mi. state highway, Perry and Pembroke, to J. H. Stafford, Bar Harbor, $84,255.

★**Me., Portland**—City let contract paving Morning St., compressed concrete, also Congress St., involving 1,956 sq.yd. split redressed granite block, to Hassam Paving Co., 17 Federal St., Worcester, Mass. Noted July 15.

★**Me., Winthrop**—City will build Winthrop Center Rd., waterbound macadam. About $25,000. Private plans. Work will be done by day labor.

★**Vermont**—State Highway Comn., Montpelier, let contract building 4.07 mi. State Highway Project 13, New Haven and Waltham, waterbound macadam, to W. F. Loud & Son Co., 94 Hall Pl., Quincy, Mass., $108,110; 0.73 mi. Project 3, Barnet, waterbound macadam, to J. Arborio Co., 80 Park St., New Haven, Conn., $28,497; 681 mi Sect A, Project 12, Mt. Tabor, Dorset and Danby, gravel, to G. L. Gregoire & Co, Barre, $132,717; 676 mi. Sect. B, Project 12, to W. E. Dix Corp., Springfield, Mass., $120,242. Noted Aug. 26.

★**Massachusetts**—State Highway Dept., Boston, let contract building 5,300 ft. bituminous macadam and cement concrete highway, Canton, to G. T. Seabury, Inc., 100 Summer St., Providence, $49,092; 5,980 ft. bituminous macadam highway, Princeton, to C. Bianchi & Co., Framingham, $32,225.

★**Massachusetts**—State Highway Dept., Boston, let contract building 2,440 ft. bituminous macadam highway, Andover, to G. T. Seabury, Inc., 100 Sumner St., Providence, R. I. $39,757.

★**Massachusetts**—State Highway Comn., Boston, let contract building 1,620 ft. bituminous macadam highway, Framingham, to C. Bianchi & Co., Framingham, $9,026; paving and improving bituminous macadam state highway, Boston, to Welsh & Montague, Salem, $25,000.

★**Mass., Boston**—City let contract paving Center and South Sts., West Roxbury, sheet asphalt, to Bermudez Co., 246-1st St., Cambridge, $75,877. Noted Aug. 26.

★**Mass., New Bedford**—City let contract paving 14,460 sq.yd. various streets, Warrenite, to Warren Bros. Co., 142 Berkeley St., Boston, $2.49 per sq.yd.

★**Mass., Southbridge**—City let contract paving 3,500 ft. Main, Elm and Congress Sts., involving 14,250 sq.yd. concrete, 300 lin.ft. granite curbing and 60 lin.ft. sidewalk, to C. Bianchi & Co., Framingham, $55,453.

★**R. I., Providence**—City let contract paving 4,447 ft. Charles St. and Regent Ave., 34 and 24 ft. wide respectively, involving 12,200 sq.yd. asphalt, to Narragansett Impvt. Co., 122 Public St., $2.40 per yd.

★**Conn., Hamden**—City let contract paving State St., bituminouos concrete to R. D. Daley & Co., 6 Church St., New Haven. About $25,000.

★**Conn., New Haven**—City let contract paving Poplar St., to R. D. Daley Co., 6 Church St., $41,460. Noted Aug. 12.

Streets and Roads (Continued)

★Conn., New Haven—City let contract paving Saltonstall Ave., bituminous macadam and Newhall St., Topeka, to Connecticut Natl. Pavements Co., 173 Orange St., $29,185 and $9,290 respectively; Rose and Cedar Sts., Topeka, to C. W. Blakeslee & Sons, 58 Waverly St., $3,751 and $1,715 respectively. Noted Aug. 26.

★Conn., Stamford—Bd. Selectmen let contract grading and paving Hope St., to F. Palmer, Foundview Ave., $197,711. Noted Aug. 12.

N. Y., Brooklyn—E. Riegelmann boro. pres., received bids Aug. 25, regulating and repaving with asphalt, (1) Bedford Ave. from Empire Blvd. to Flatbush Ave., regulating and paving with asphalt, (2) East 7th St. from Foster Ave. to Ave. H, (3) East 10th St. from Ave. L to Ave. M., (4) 20th St. from 80th to 82nd Sts., (5) 56th St. from 14th to 15th Avs., (6) Ralph Ave. from Bway. to Macon St., from Consolidated Constr. Co., 83 Manhattan St., New York City, (1) $237,782, (2) $8,008, (3) $16,159, (4) $13,695, (5) $14,360; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (1) $240,701, (2) $8,773, (3) $15,929, (4) $13 965, (5) $14,158; Uvalde Asphalt Paving Co., 1 Bway., New York City, (1) $247,965, (2) $9,085, (3) $16,221, (4) $13,682, (5) $14,601; regulating and repaving with Grade 1 granite block, (7) Flatbush Ave. from Park Plaza to point 454 ft. north, from M. J. O'Hara (7) $171,596; F. J. Gallagher, 490 Park Pl., (7) $172,190; Edwards & Flood, Classon Ave. and Lincoln Pl., (7) $173,642; regulating and grading, (8) East 7th St. from Foster Ave. to Ave. H, (9) East 17th St. from Ave. L to Ave. M, (10) Mansfield Pl. from Ave. N to Kings Highway, (11) Warehouse Ave. from Surf Ave. to point 600 ft. south, (12) 20th Ave. from 80th to 82nd Sts., (13) 64th St. from New Utrecht to 15th Aves., from Wolfman & Greenbaum, 644 Saratoga Ave., (8) $2,495, (9) $8,988, (10) $9,913, (11) $13,844, (12) $5,345, (13) $1,559; Cassle Bros., (9) $8,209, (10) $10 005; J. J. Guinan, (11) 11,416; L. Mangeri, (10) $11,949, (12) $2,644, (13) $1,503; Caponi Constr. Co., 1320 65th St., (8) $3,342, (9) $9,147 (12) $2,443, (13) $1,676. Noted Aug. 19.

N. Y., Long Island—M. E. Connolly, pres. Queens Boro., received bids Aug. 23, regulating and paving with bituminous macadam (1) Ash St. from Parson to Browne Aves., regulating and repaving with asphaltic concrete, (2) Broadway when and where directed, regulating and grading with granite block, (3) Metropolitan Ave. from Flushing Ave. to Helen St., regulating and repaving with asphalt black, (4) 97th St. from Jamaica to Atlantic Aves., regulating and grading with sheet asphalt, (5) 97th St. from Jamaica to Atlantic Aves., (6) Opdyke St. from Alburtis to Tieman Aves., (7) Stockholm St. from Onderdonk to Seneca Aves., (8) crosswalks from Woodside to Stryker Aves., (9) Grandview Ave. from Stanhope to Metropolitan Aves., from Kennedy & Smith, 94 Main St., Flushing, (1) $7,898, (3) $16,824, (6) $5,350; Tuohy & Upton, 98 Main St., Flushing, (1) $8,074; Pease Bros., 30 Park Row, New York City, (1) $8,316, (3) $20,400, (6) $4,075, (8) $7,304, (9) $11,279; Sicilian Asphalt Paving Co., 41 Park Row, New York City, (2) $225,590, (7) $9,152; Cleveland Trinidad Paving Co., Cleveland, O., (2) $227,595; (5) $66,055, (7) $9,181; Union Paving Co., Bway. and 112th St., New York City, (2) $253,250, (5) $53,665, (7) $8,412; Welsh Bros., 14 Queens St., Astoria, (3) $13,135, (6) $5,100, (8) $7,243; J. H. Johnson, (3) $18,430; Hastings Paving Co., 25 Broad St., New York City, (4) $97,680; L. J. Rice, (6) $5,095; C. Kurth, (8) $6.576, (9) $12,067; C. A. Myers, Stagg St., Brooklyn (9) $10,655; Scott Bros., (9) $11,042. Noted Aug. 19.

★N. Y., New York—H. Bruckner, pres. Bronx Boro., let contract repaving with sheet asphalt in railroad area, when and where directed, to Union Paving Co., Bway. and 112th St., $25,120. Noted Aug. 26.

D. C., Wash.—Dist. Comrs. received bids Aug. 25, grading (1) Argonne Pl., (2) Arkansas Ave., (3) Otis St., (4) Webster St., (5) 6th St., (6) 16th St., (7) alley in block 3243, from G. Hyman, West Virginia Ave. and Morse St., N. E., (1) $.89, (2) $.84, (3) $.77, (4) $.79, (5) $1.75, (6) $.74, (7) $1.50; G. B. Mullin, 3303-11th St., N. W., (1) $.53, (2) $.63, (3) $.69, (4) $.79, (5) $1.75, (6) $1.17, (7) $1.34; W. F. Brenizer Co., 101 New York Ave., N. E., (1) $.75, (2) $.65, (3) $.85, (4) $.67, (5) $1.25, (6) $.62, (7) $1.40.

W. Va., Charleston—Comrs. Kanawha Co. let contract building 4 mi. road from Paint Creek Jct. to Livingston, Sect. 8, to Randish Constr. Co., Princeton, $64,000, 4.1 mi. road from Cabin Creek Jct. to Loudon Dist line, Sects. 5 and 6, to Towles & Co., Princeton, $179,530; 3 mi. road from Montgomery-west, Sect. 4, to Abbott Bros., Charleston, $27,470. Noted July 22.

★W. Va., Ripley—Comrs. Jackson Co. let contract building 1 mi. road from Ravenswood to Silverton, Class A concrete, to Bidding & Carr, Ripley. About $47,000.

★W. Va., Webster Springs—Webster Co. let contract grading and draining 3.33 mi. Point Mountain Rd., to H. H. Bruffey, Webster Springs. About $85,400. Noted July 29.

★S. C., Columbia—City Council let contract excavating, grading and surfacing 7 blocks North Main St., oil bitulithic, to Atlantic Bitulithic Co., Columbia. $104,824. Noted Aug. 5.

★Ohio—State Highway Comm., Columbus, let contracts building roads in following counties:

Ashland Co., Sect. "Haysville" Mansfield-Wooster Rd. 0.624 mi. grading, constructing bridges and culverts and paving with monolithic brick to D. A. Philips & Son, Ashland, $33,125.

Sect. "D" Mansfield-Wooster Rd., 3.509 mi., grading, constructing bridges and culverts and paving with monolithic brick, D. A. Philips & Son, Ashland, $152,221.

Sect. "Jeromeville" Mansfield-Wooster Rd. 0.039 mi., grading, constructing bridges and culverts and paving with monolithic brick, D. A. Philips & Son, Ashland, $7,942.

Lucus Co., Sect. "H-2" Toledo Wauseon Rd., 1.105 mi., grading, constructing bridges and culverts, widening present roadway and surface treatment, Langenderfer, Toledo, $13,282.

Sandusky Co., Sects. "C-1" and "C-2" Fremont-Bowling Green Rd. 2.222 mi., grading, constructing bridges and culverts and paving with brick on concrete foundation, to Modern Constr. Co., Fremont, $84,928.

Sect. "U" Sandusky-Clyde Rd., 0.995 mi. grading, constructing bridges and culverts and paving with rein-con., Lee Bros. & Petticord, Clyde, $41,625.

Vinton Co., Sect. "Hamden" McArthur-Jackson Rd. 0.96 mi., grading, constructing bridges and culverts and paving with brick on rolled base, Anderson & Brown, Chillicothe, $45,663.

Crawford Co., Sect. "A" Galion-Bucyrus Rd., 1.13 mi., widening and resurfacing with bituminous concrete, J. W. Carey, Ada, $32,104.

Huron Co, Sect "C" Monroeville-Chicago Juction Rd. 1.78 mi. grading, widening to 16 feet, repairing foundation and resurfacing with waterbound macadam, Barnes & Tabbert, Rocky Ridge, $23,779.

Lorain Co., Sect. "M" Oberlin-Elyria Rd., 1.72 mi., resurfacing with 2-inch bituminous concrete, Highway Constr. Co., Elyria, $42,-914.

Richmond Co., Sect. "H" Mansfield-Mt. Gilead Rd., 4.36 mi., widening and resurfacing with bituminous macadam, Trumbull Constr. Co., Lorain, $44,074.

Warren Co., Sect. "D" Cincinnati-Chillicothe Rd., 2.99 mi., resurfacing with waterbound macadam, S. B. Craig, Blanchester, $49,546. Noted Aug. 26.

★O., Cleveland Heights (Warrensville P. O.)—Village let contracts to Cleveland Trinidad Paving Co., The Arcade, Cleveland, grading, draining, curbing and paving Kensington Rd., cost, $46,756; Kerrwood Rd., $9,773; Maplewood Ave., $19,949; Oakdale Rd., $19,969; Princeton Rd., $45,903; Taylor Rd., $47,500; Briarwood Rd., $19,965; Canterbury Rd., $46,385; Colchester Rd., $13,610; Cottagegrove Drive, $19,969; East Derbyshire Rd., $30,449; Edgewood Rd., $15,231. Noted Aug. 19.

★Wis., Milwaukee—Bd. Pub. Wks. let contract paving (1) 47th St. from Meinecke to Center Sts., involving 5,079 sq.yd. asphalt, (2) Richards St. from Franklin to Lake Sts., 5,005 sq.yd. asphalt, (3) alley between 1st, 2nd, Sherman and Reservoir Sts., 968 sq.yd. cement concrete, (4) alley between 5th, 6th, Cherry and Galena Sts. 1,675 sq.yd. cement concrete, (5) alley between 5th, 6th, Walnut and Sherman Sts., 890 sq.yd. cement concrete, (6) alley between 6th, 7th, Walnut and Galena Sts., 997 sq.yd. cement concrete, (7) alley between North Ave., 8th, 9th and Garfield Sts., 638 sq.yd. cement concrete, (8) alley between 8th, 9th, Harmon and Lloyd Sts., 738 sq.yd. cement concrete, to Badger Constr. Co., 97 Wisconsin St., (1) $3.87 per sq.yd.; White Constr. Co., 425 East Water St., (2) $3.90; Froeming Bros., 1336 Humboldt Ave., (3) $2.45, (6) $2.50, (7) $2.50, (8) $2.50; F. Banaszak, 1335 4th Ave., (4) $2.40, (5) $2.45.

★South Dakota—State Highway Comm., at Div. office, Pierre, let contract to Pioneer Bridge Co., Mitchell, gravel surfacing 7.76 mi. Mitchell-Plankinton Rd., Federal Aid Project 21, 24 in. wide, Aurora Co., involving 4,200 cu.yd. excav., at $.60 per cu.yd., 11,638 cu.yd. gravel, $1.20, 272 cu.yd. cav binder, $1.50, etc., total $36,469; grading and draining above, 36 ft. wide, involving 43,286 cu.yd. excav., at $.65 per cu.yd. 105-cu.yd. rip rap, $7, 287 cu.yd. structure excav., $3, 167.07 cu.yd. Class A concrete, $36, 85.11 cu.yd. Class B, $36, 17,173 lb. steel reinforcement, $.08, 775 lb. structural steel, $.25, total $43,065.

★South Dakota—State Highway Comm. at div. office, Aberdeen, let contract to Stevens Bros., 15 Piedmont Bldg., St. Paul, Minn., grading and draining 12.46 mi. Mound City-Leola-Ipswich Highway, 36 ft wide, McPherson Co., involving 31 cu.yd. solid rock excav. at $3 per cu.yd., 277 cu.yd. loose rock excav., $2, 72,990 cu.yd. excav., $0.60, 83,620 yd. sta. overhaul, $0.04, 332 cu.yd. structure excav., $3, 400 lin.ft. 15 in. corrugated iron pipe, $2.75, 268 lin.ft. 18 in., $3.50, 152 lin.ft. 24 in., $4.25, 415.31 cu.yd. Class "A" concrete, $40, 74.10 cu.yd. Class "B" concrete, $40, 2 cu.yd. hand rail concrete, $60, 33,880 lb. reinforcing steel, $0.12, clearing, $250, etc., total $76,036; 10.69 mi. Milbank-Webster Rd., 36 ft. wide, Roberts Co., $74,450, to H. C. Hanson, Groton, grading and draining 21.1 mi. Webster-Aberdeen-Mobridge Highway, 36 ft. wide, Brown Co., $128,046.

★South Dakota—State Highway Comm., Pierre, let contract grading and draining 5 mi. Ft. Pierre-Philip Rd., Sect. A, Federal Aid Project 1, Stanley Co., to J. G. Jeffries, Ft. Pierre. Work involves 40,580 cu.yd. excav. at $0.65 per cu.yd., 32,310 yd. sta. overhaul, $0.05, 2,650 lin.ft. wooden guard rail, $1.10, 137 cu.yd. structure excav., $2, 62.58 cu.yd. Class "A" concrete, $40, 65.7 cu.yd. Class "B," $40, and 5,196 lb. steel reinforcement, $.572, total $38,031. Noted Aug. 19.

★North Dakota—State Highway Comm., Bismarck, let contract grading 20 mi. State Rds. 62 A and 63, 24 ft. wide, McLean Co., to Hohman & Webster, Turtle Lake, $78,876.

★Missouri—State Highway Dept., Hermitage, let contracts to Preston Special Rd. Dist., c/o J. W. Luks, Preston, building 4.49 mi. Preston-Collins Rd. (Preston Special Rd. Dist.) Federal Aid Project 46, $26,094; 7.4 mi. Springfield-Sedalia Rd. (Preston Special Rd. Dist.), Federal Aid Project 45, both Hickory Co., $42,010. Noted Aug. 26.

★Missouri—State Highway Dept., Clayton, let contracts to St. Louis Co. Court, Clayton, building 1.7 mi. Sect. A, St. Charles Rd., 26½ ft. wide, involving 546 cu.yd. earth excav., 2,288 sq.yd. each plain cement concrete base course and bituminous surface course, specification "C," $9,246; 1¼ mi. Sect. B, St. Charles Rd., 21 ft. wide, 6,482 cu.yd. earth excav., 14,628 sq.yd. monolithic brick pavement, 12.88 cu.yd. Class "B" concrete masonry, 920 lb. reinforcement for concrete masonry, 720 lin.ft. ½ in. premolded expansion joint, $70,006; 1.89 mi. Sect. C, St. Charles Rd., 20 ft. wide, 5,000 cu.yd. earth excav., 1,778 sq.yd. monolithic Hillside brick pavement, 20,712 sq.yd. 2 course plain cement concrete pavement, $86,746; 9⅝ mi. Sect. D, St. Charles Rd., 18 ft. wide, 40,255 cu.yd. earth excav., 32,-659 cu.yd. borrow, 95,677 sq.yd. 1 course plain cement concrete pavement, 3,000 sq. yd. monolithic Hillside brick pavement, 3.2 cu.yd. Class "A," 390 cu.yd. Class "B" and 49.3 cu.yd. Class "C" concrete masonry, 31,000 lb. reinforcement for concrete masonry, etc., $414,775; rein.-con. skew deck girder bridge, to have 2 rein.-cor. abutments, 2.9 cu.yd. Class "A" and 107 cu.yd. Class "B" concrete, 13,500 lb. reinforcing steel, $4,332; rein.-con. through girder bridge and facing old stone abutments with concrete over Cold Water Creek, 5 cu.yd. Class "A" and 133.3 cu.yd. Class "B" concrete, 13,850 lb. reinforcing steel, $5,142. All above on Federal Aid Project 79, St. Louis Co.

★Mo., St. Joseph—Buchanan Co. let contract paving ½ mi. Asylum Rd., 24 ft. wide, in front of State Hospital 2, bituminous macadam, to Land Canstr. Co., Ballinger Bldg., $30,996.

★Mo., St. Joseph—Buchanan Co. let contract grading 20.02 mi. St. Joseph-Atchison Rd., State Aid Project 49, to Spitcaufsky Bros., 25th and Baltimore Aves., Kansas City, $126,371. Noted Aug. 5.

Streets and Roads (Continued)

★**Colorado**—State Highway Dept., Denver, let contract paving 2.761 mi. road between Colorado Springs and Broadmoor, 18 ft. wide, 4 ft. shoulders, Federal Aid Project 118, El Paso Co, concrete, to H Shuck, Denver, $126,566. Noted Aug. 12.

★**Idaho**—State Highway Dept., Boise, let contracts to F. Coolidge, Laramie, Wyo., grading and gravel surfacing 9.75 mi. Teton Highway, 16 ft. wide, Federal Aid Project 41, Teton Co., $91,658; 18 mi. Idaho-Central Highway, 16 ft. wide, Federal Aid Project 38, Butte Co., $87,724; 15 mi. Idaho-Pacific Highway, 16 ft. wide, Federal Aid Project 30, Power Co., $108,584; to S. C. Comerford, ranch west of Joplin cemetery, Boise, grading 20 mi. North and South Highway, 24 ft. wide, Federal Aid Project 40, Washington Co., $163,519. Noted Aug. 12.

★**Idaho**—State Highway Dept., Boise, let contract grading and graveling 14 mi. North and South Highway, 16 ft. surfacing, Federal Aid Project 20, Boundary Co., involving 110,000 cu.yd. earth and 400 cu.yd. rock excav., 16,400 cu.yd. gravel, 3,200 ft. corrugated iron pipe, 210 cu.yd. concrete, to Genl. Constr. Co., 444 Peyton Bldg., Spokane, Wash., $137,621; grading and surfacing with crushed rock 12.57 mi. North and South Highway, 16 ft. surfacing, Federal Aid Project 19, Bonner Co., 90,971 cu. yd. earth excav., 19,910 cu.yd. broken stone, 170 cu.yd. concrete, 6,000 lb. metal reinforcement, 1,470 lin.ft. corrugated iron culverts, to Highway Constr., Colfax, Wash., $145,033; grading 4 mi. Lewis and Clark Highway, 24 ft. wide, Federal Aid Project 33, Nez Perce Co., 18,145 cu.yd. earth and 45,432 cu.yd. rock excav., to Hauser Constr. Co., 507 Henry Bldg., Portland, Ore., $79,-999; improving 3.7 mi. Idaho-Utah Highway, 16 ft. surfacing, Federal Aid Project 35, Franklin Co., 31,000 cu.yd. earth and 300 cu.yd. rock excav., 3,950 cu.yd. gravel, 678 lin.ft. corrugated iron pipe, to F. Coolidge, Laramie, Wyo., $43,607. Noted Aug. 12.

Idaho—State Highway Dept., Boise, received bids Aug 19, grading and bituminous surfacing (a) 2.7 mi. Yellowstone Park Highway, 16 ft. surfacing, Federal Aid Project 46, (b) 6.46 mi. Roosevelt Highway, 16 ft. surfacing, Federal Aid Project 21, (c) 2.8 mi. Twin Buttes Highway, 16 ft. surfacing, Federal Aid Project 43, all Bonneville Co., from J. C. Maguire, Box 187, Idaho Falls, (a) $104,568, (b) $243,772, (c) $107,870; Phelps Constr. Co., 515 Eccles Bldg., Ogden, Utah, (a) $105,-217, (b) $247,605, (c) $113,877; Warren Constr. Co., Journal Bldg., Portland, Ore., (a) $107,337, (b) $253,968, (c) $120,269. Noted Aug. 12.

★**Utah, Lehi**—City let contract paving 1.2 mi. State Rd., 40 ft. wide, 6 in. plain concrete, to Strange & Maguire, Utah Savings & Trust Bldg., Salt Lake City, $81,301.

★**Cal, San Diego**—San Diego Co. let contract building 5.6 mi. San Luis Rey Rd. 2, between Oceanside and Guajome 16 ft. wide, portland cement concrete, to Southwest Paving Co., Citizens Natl. Bank Bldg., Los Angeles, $152,333.

★**Ont., Hamilton**—City let contract for 30,000 sq.yd. bithulithic pavement on 6 in. concrete base to Warren Bituminous Paving Co., McKinnon Bldg., Toronto. About $145,-000.

Excavation and Dredging

PROPOSED WORK

Ia., Iowa City—Ditch—Johnson Co. having plans prepared for 23 mi. drainage ditch along Old Mans Creek. About $275,-000. A. F. Fisher, Iowa City, engr.

Minn., St. Peter—Drainage—Nicollet Co. rejected bids Aug. 19, building Drainage System 69, involving 17,700 ft. open ditch, 218,020 cu.yd. excav., 230,000 lin.ft. 8-44 in. tile, 14 concrete headwalls, 286 ft. 9-30 in. corrugated culvert pipe, etc. About $285,075. Work will probably be readverticed. Noted Aug. 12.

Ont., London—Drainage—Middlesex Co. plans to drain farm lands. About $75,000. F. W. Farncombe, London, engr.

BIDS DESIRED

N. J., Paterson—Excavation—Until Sept. 14, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, for earth excavating, refilling, trenching and open excavating for 30 in. c. i. pipe in line crossing Passaic River at Lawrence St. Work includes furnishing joint materials, 30 cu.yd. concrete masonry, 200 long ton riprap in place, etc. Cost to exceed $25,000. J. R. Van Duyne, engr.

Mich., Pontiac—Drain—Until Sept. 13, by E. F. Luebke, city clk., building Sect. 1 surface drain (Ferry Farm Surface Drain); advertised in this issue.

Ill., Latham—Drain—Until Sept. 11, by Comrs. Illini Special D.D., at State Bank of Latham, furnishing labor and material building tile drains in Sub-Dist. 6, Macon and Logan Counties. Separate bids will be received on following propositions: (1) furnishing 100 ft. 15-18 in. salt glazed tile, hard burned, and 12,933 ft. 8-18 in. shale tile, hard burned; (2) 100 ft. 15-18 in. salt glazed tile, hard burned and 7,278 ft. 15-18 in. shale tile, hard burned; (3) 5,655 ft. 8-12 in. No. 1 clay tile, hard burned; (4) unloading from cars, immediately upon arrival here, and deliver along line of proposed trench all tile listed in any of above propositions; (5) furnishing all labor and material, except tile, and pay various quantities and sizes of tile listed in propositions 1, 2 and 3, as line of tile may be staked out by engmeer, or representatives, and exactly to grade furnished by him; (6) furnish all labor and material and do all that is required by any of 5 preceding propositions. T. P. Gasaway, pres.

Ia., Ft. Dodge—Ditch—Until Sept. 14, by Bd. Supervs. Webster Co., building D. D. 287, Jackson Twp., involving 9,160 ft. 32-34 in. tile, etc. About $32,575. C. A. Snook, aud.

Ia., Ft. Dodge—Drainage—Until Sept. 14, by Bd. Supervs. Webster Co., building D.D. 318, involving 20,887 ft. 6-32 in. tile, etc. About $29,998. C. A. Snook, aud.

Minn., Granite Falls—Ditch—Until Sept. 10, by G. H. Wilson, aud. Yellow Medicine Co., building Judicial Ditch 17, Yellow Medicine and Lyons Counties, involving 28,280 ft. 6-20 in. tile and 4,313 cu. yd. open work. About $25,000.

Minn., Redwood Falls—Ditches—Until Sept. 7, by L. P. Larson, aud., Redwood Co. building (1) Judicial Ditch 25, involving 46,855 ft. 6-24 in. tile, etc., cost $25,819; (2) Ditch 33, 14,200 lin.ft. open ditch 111,850 cu.yd. excav., $18,455. Sect. 2, Branches 2 to 9, 43,750 lin.ft. sewer pipe inlets with c.i. gates, $29,196. Sect. 3, branches 10 and 11, 45,805 ft. 6-26 in. tile, 5 cu.yd. concrete, $31,178; (3) Ditch 49. Sect. 4, Branches 1 to 25, 39,905 ft. 6-18 in. tile, $15,075. Sect. 5, Branch 5, 25,455 ft. 6-26 in. tile. Sect. 6, Branches 6, 7, 17, 21 and 26, 28,495 ft. 6-22 in. tile, $11,444. (4) Ditch 65, 14,200 ft. 6-18 in. tile, 300 lin.ft. open work, $9,793; (5) Ditch 70 31,250 ft. 6-24 in. tile, 30 cu.yd. excav. at outlet, $24,481. B. J. Reynolds, Redwood Falls, engr. for Ditches 25, 33 and 65. G. E. Thorn, Redwood Falls, engr for Ditches 49. F. B. Forbes, Redwood Falls, engr. for Ditch 70.

Ark., Eudora—Drainage—Until Sept. 27, by Comrs. Grand Lake D.D., Chicot Co., building drainage system. R. Meyer, secy.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Minn., Anoka—Ditch**—Anoka Co. let contract repairing Ditch 28, to K. C. Richardson, Anoka, $47,733. Noted Aug. 12.

Minn., Henderson—Ditch—Sibley Co. let contract building Co. Ditch 36, involving 35,511 ft. 5-28 in. tile, 55 cu.yd. open work, etc., to Arlington Cement Stone Wks., Arlington, $41,979. Noted June 10.

Industrial Works

PROPOSED WORK

Me., Bangor—Keyes Fibre Co., Waterville, plans to build papyrus mill, 40 ton capacity, here.

Me., Lewiston—Androscoggin Mills soon let contract building about one hundred 2 story houses, also paving streets and building sidewalks and sewrs, etc. About $1,000,-000. Private plans.

N. H., Concord—Boston & Maine R. R., North Sta., soon lets contract building 1 story, rein.-con., brick, concrete and steel engine house and roundhouse, rein.-con. flooring, concrete foundation on Hall St. Private plans.

Mass., Cambridge—University Press, University Rd., plans to build large addition to plant. Architect not selected.

Mass., Lynn—General Electric Co., State St., soon lets contract building 1 story, 180 x 250 ft., brick, steel and concrete factory, rein.-con. flooring, concrete foundation. About $150,000. Private plans.

Mass. Norwood—Holliston Mill, Lenox Ave., soon lets contract building 2 story, 136 x 280 ft., brick and timber mill, and 1 story, 50 x 70 ft., brick boiler house, concrete foundations, at plant. About $300,000. J. W. Beal, 62 Summer St., Boston, archt.

Mass., Worcester—E. T. Chapin, archt., 310 Main St., soon lets contract building 2 story, 60 x 135 ft., brick, rein.-con. and steel addition to garage, rein.-con. flooring, concrete foundation, on Portland St., for H. Glick, 36 Portland St. About $80,000. Noted Aug. 26.

Conn., New Haven—Natl. Folding Box & Paper Co., James St., had plans prepared by Westcott & Mapes, Inc., engrs., 207 Orange St., for 3 story, 60 x 140 ft., rein.-con., brick and steel warehouse, rein.-con. flooring, concrete foundation. About $100,-000.

Conn., Norwalk—Westcott & Mapes, Inc., engrs., 207 Orange St., New Haven, soon let contract building 2 story, 20 x 40 ft., rein.-con., steel and brick, electrical plant, rein.-con. flooring, concrete foundation, on State St., for city. About $50,000.

N. Y., Brooklyn—C. A. Benoit, Jerome Ave., soon lets contract building 3 story, rein.-con. and steel factory, rein.-con. flooring, brick foundation, on Ave. I, Sheepshead Bay. About $200,000. Private plans.

N. Y., Brooklyn—Chapman Printing Co., c/o H. J. Nurick, archt. and engr., 772 Bway., having sketches made for 1 story, 100 x 200 ft., rein.-con. and brick plant, rein.-con. flooring, concrete foundation on Morgan Ave. and Grand St. About $55,000.

N. Y., Brooklyn—H. J. Nurick, archt. and engr., 772 Bway., preparing plans for 1 story, 100 x 200 ft., rein.-con., brick and steel factory and warehouse on Glenmore Ave. About $50,000. Owner's name withheld.

Pa., Johnstown—Salem Bros., 312 Washington Ave., plans to build 3 story, 90 x 126 ft. brick factory on Washington Ave. About $150,000.

Pa. Johnstown—See "Buildings."

Pa., Kittanning—Kittanning Iron & Steel Co. having plans prepared by A. G. McKee Co., archts. and engrs., 2422 Euclid Ave., Cleveland, O., for 1 story, brick and steel addition to plant, brick foundation.

Pa., Phila.—Federal Container Co., c/o L. B. Rothchild, archt., 1225 Sansom St., soon lets contract building 1 story, 200 x 300 ft., concrete and brick factory on Thompson and Tioga Sts.

Md., Baltimore—Johns-Hopkins University having plans prepared by Carrere & Hastings, archts. and engrs., 52 Vanderbilt Ave., New York City, for 2 story, brick and stone chemical laboratory, concrete foundation. About $150,000. F. E. Goodnow, pres.

Ky., Louisville—Ewald Iron Co., 224 North Clay St., plans to build addition to foundry. About $3,000,000.

Ky., Louisville—Shatton & Terstegge Co., 15th and Main Sts., plans to build addition to factory. About $100,000.

Ky., Louisville—Shuler Axle Co., Jones and N Sts., plans to build factory. About $1,000,000.

O., Canton—Cummins Storage Co. 400 Walnut Ave. S. E., plans to build 5 story, 133 x 200 ft. storage plant, on Cherry Ave. N. E. and Tuscarawas St. E. About $250,-000.

O., Chagrin Falls—E. McGeorge, archt. and engr., 1900 Euclid Ave., Cleveland, opens bids about Sept. 7, building 2 story, 60 x 120 ft., brick and steel addition to paper mill, brick foundation, for Adams Bag Co. About $100,000. Noted July 8.

O., Cleveland—Lake Erie Motor Co., c/o A. Twelvetree, East 46th St. and Carnegie Ave., plans to build 2 story, brick and steel addition to garage. About $100,000. Architect and engineer not selected.

O., Columbus—Capitol City Products Co., West 1st Ave., having plans prepared by Basset & Tresselt, archts., Central Natl. Bank Bldg., for 2 story, 100 x 165 ft. addition to factory. About $100,000.

Industrial Works (Continued)

O., Columbus—Cleveland Trinidad Paving Co., Superior Arcade, Cleveland, having plans prepared for 1 story, 100 x 175 ft. asphalt plant, on Dublin Rd., here. About $60,000. Private plans.

O., Columbus—Cotter Warehouse Co., Schultz Bldg., having plans prepared for 3 story, 72 x 115 ft., concrete addition to warehouse, on Terminal Way. About $50,000. Private plans.

O., Elyria — Reliance Crane Co. having plans prepared by Watson Eng. Co., archts. and engrs., Hippodrome Bldg., Cleveland, for 1 story, 118 x 180 ft., brick and steel factory and power house, brick foundation. About $125,000.

Ind., Indianapolis—Milan Tire & Rubber Co., c/o M. Wilson, Hotel Cleveland, Cleveland, O., plans to build 3 story, rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation. About $350,000. Carter-Richards-Griffiths Co., Illuminating Bldg., Cleveland, archts. and engrs.

Mich., Monroe—Monroe Auto Equipment Co., East 1st St., having plans prepared by R. M. Dunbar, arch., Monroe, for 1 story, 50 x 200 ft., brick, rein.-con. and steel foundry and 60 x 70 ft. core room, on East 1st St.

Wis., Chilton—J. McGrath plans to build 4 story, 40 x 124 ft. brick, rein.-con. and steel wagon factory and 10 x 24 ft. boiler house, rein.-con. flooring, concrete foundation, on North Main St. About $50,000. Architect not selected.

Wis., Milwaukee—C. Keller & Son archts., Majestic Bldg., soon let contract building 2 story, 48 x 100 ft., brick and mill construction factory, concrete foundation on Fond du Lac Ave., for Milwaukee Box Toe Co., 140 Reed St.

Wis., Sheboygan—Juul & Smith, archts., Imig. Bldg., soon let contract building 2 story, 70 x 100 ft., brick, rein.-con. and steel factory, rein.-con. flooring, brick foundation, in Lyman Addition, here, for Columbia Rubber Mills 176 16th St., Milwaukee. Cost between $50,000 and $75,000. E. Juul, 805 North 8th St., engr. Noted Aug. 12.

Wis., Waupaca—Jorgensen Mfg. Co. plans to build 1st unit of plant, 2 story, 60 x 150 ft., brick, rein.-con. and steel, brick foundation, on Main St. Cost between $50,000 and $75,000. Architect not selected, probably private plans.

Minn., Mankato—Overland-Perrin Co. having plans prepared for 2 story, 88 x 157 ft. concrete and steel garage on South Front St. About $100,000.

Minn., Minneapolis — Franklin Co-operative Creamery Co., 26th St. and Franklin Ave., having plans prepared by O. K. Westphal, engr., 319 Kasota Bldg., for 1 story, 64 x 85 ft., rein.-con. and brick creamery. About $50,000.

Minn., Minneapolis—Fruen Cereal Co., 100 Corn Exch. Bldg., having plans prepared by Hickok Constr. Co., archts., 1019 Flour Exchange, for 1 or 2 story, 60 x 60 ft. rein.-con. and brick warehouse and blending plant, on Western and Thomas Aves. About $50,000.

Kan., Dodge City—Midland Ice & Light Co. having plans prepared by Mann & Gerow, archts., 722 Rorabaugh Wiley Bld., Hutchinson, for 1 story, 56 x 62 ft., brick, rein.-con. and steel, boiler house, rein.-con. flooring, concrete foundation. About $50,000.

N. D., Devils Lake—Farmers Cold Storage Co. plans to build creamery and cold storage plant to replace one destroyed by fire. About $100,000. T. Malony, pres. Engineer not selected.

Mo., Kansas City—J. A. Conover, 5th and Wyandotte Sts., having plans prepared by Shepard & Wiser, archts., Long Bldg., for 2 story, 100 x 134 ft., rein.-con. and brick warehouse, rein.-con. flooring.

Mo., St. Louis—Garrett Wine Co., care of Klipstein & Rathman, archts., Chemical Bldg., had plans prepared for 2 to 4 story, 113 x 301 ft., rein.-con. and brick factory, rein.-con. flooring, on Union and Natl. Blvd. About $450,000.

Okla., Purcell—See "Waterworks."

Utah, Brigham—City election Sept. 10 to vote on $200,000 bonds to build addition to power plant on Canyon St. C. O. Roskelley, Brigham, engr.

Ont., Sudbury — International Nickel Co. plans to build rolling mill. About $3,000,000

BIDS DESIRED

Fla., Jacksonville—Until Sept. 6, by A. Kahn, archt., Marquette Bldg., Detroit, Mich., building 2 story, 129 x 147 ft., rein.-con. and brick service station, rein.-con. flooring, concrete foundation, on Bay St., here, for Ford Motor Co., Highland Park, Mich.

O., Cleveland—Until Sept. 7, by Vincent Bros. Garage, 1838 Woodlawn Ave., building 1 story, 41 x 110 ft., brick and steel garage, brick foundation, at 12505 Penobscot Ave. About $50,000. H. W. Grieme, Lenox Bldg., archt.

Wis., Butternut—E. Ross receiving bids building 4 story, 60 x 250 ft. veneer plant, brick, rein.-con. and steel, concrete foundation, on Main St. About $100,000.

Wis., Campbellsport—White House Milk Products Co., West Bend, and M. Tullgren & Sons, archts., 425 East Water St., Milwaukee, receiving bids building 1 story, 50 x 100 ft. creamery, brick, rein.-con. and steel, brick foundation. About $100,000. Noted Aug. 5.

Kan., Wakeeney—Until Sept. 17, by city, building (1) power plant and coal bunkers, (2) furnishing all labor, engines, generators, exciters, either new switchboard or moving present one and providing all necessary equipment, (3) furnishing, erecting and testing boilers, boiler feed pumps, feed water heaters, steam and exhaust piping, stokers, etc. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Mo., Kansas City—Until Sept. 6, by Ford Motor Co., Highland Park, Detroit, Mich., building 1 story, 175 x 535 ft., brick and steel, tractor assembly plant, rein.-con. flooring, on 11th and Winchester Sts., here. A. Kahn, 58 Lafayette St., Detroit, archt.

Okla. Oklahoma—Missouri, Kansas & Texas Ry., Parsons, Kan., receiving bids building, rein.-con., brick and steel round house and railway shops, rein.-con. flooring, concrete foundation here. About $65,000. F. H. Ringer, Dallas, Tex., ch. engr.

Ont., London — F. W. Ruggles, Alma, Mich., receiving bids building first unit of concrete and steel factory here. About $2,000,000. Private plans.

Ont., Watford—Until Sept. 11, by Andrews Wire Co., building 2 story, 60 x 150 ft. brick addition to factory. About $50,000. Noted Feb. 20.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Vt., Hartford—International Paper Co., 45 Milk St., Boston, let contract building 2 story, steel, brick and timber addition to factory, concrete foundation, to H. P. Cummings Constr. Co., 14 Prospect St., Ware, Mass. About $50,000.

★Mass., Everett — D. McGonagle, 24 Mystic St., will build 1 story, 90 x 200 ft., concrete and steel garage, rein.-con. flooring, concrete foundation, on Bow St. About $65,000. Work will be done by day labor.

★R. I., East Warren (Warren P. O.)—Greyhound Motor Corp., 5 Columbus Circle, New York City, will build 1 story, 100 x 200 ft., steel and stone factory, rein.-con. flooring, rock foundation, here. About $100,000. Work will be done by day labor.

★R. I., Lonsdale—Lonsdale Co. let contract constructing several concrete and frame buildings, concrete foundations, to include barn, silo and dairy houses, blacksmith shop and garage, to Cross & Robert, 201 Devonshire St., Boston. About $150,000.

★Conn., Bridgeport—Cornwall & Patterson Co., State and Fairfield Aves., let contract building 1 story, 85 x 100 ft., brick and steel addition to plant on Bedford St., to S. W. Hubbell Bldg. Co., 589 Knowlton St. About $60,000.

★Conn., Middletown — Goodyear Rubber Co., 114 Church St., let contract building 1 story, rein.-con., brick and steel boiler house, rein.-con. flooring, concrete foundation to D. O'Brien & Sons Co., Inc., 118 Asylum St., Hartford. About $50,000.

★Conn., New Haven—United Illuminating Co., 84 Temple St., let contract building 1 story, rein.-con., brick and steel addition, rein.-con. flooring, concrete foundation, on Grand Ave., to C. W. Murdock, Inc., 185 Church St. About $100,000.

★Conn., Stamford—Richards & Co., Inc., Ludlow St., let contract constructing 3 story, 80 x 110 ft. factory, 1 story, 52 x 60 ft., 1 story, 36 x 66 ft. and 1 story, 30 x 200 ft., drying room, lacquer building and machine shop, brick and steel, concrete foundation, on Canal and Ludlow Sts., to J. W. Ferguson Co., 602 West 110th St., New York City. About $75,000.

★N. Y., Brooklyn—J. Hochman, c/o H. A. Weinstein, archt. and engr., 375 Fulton St., New York City, will build 1 story, 125 x 180 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Gravesend Ave. About $60,000. Work will be done by day labor.

★N. Y., Brooklyn—Jamaica Realty Co., c/o C. Mayer, archt., 110 West 40th St., New York City, let contract building 5 story, 100 x 40 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Jamaica Ave., to T. A. Clarke, 122 Livingston St. About $500,000.

N. Y., Brooklyn—J. F. Trommer Co., Inc., 1632 Bushwick Ave., will build 2 story, 40 x 180 ft., brick and steel garage, rein.-con. flooring, concrete foundation. About $90,000. Work will be done by day labor.

★N. Y., Brooklyn—J. Wachtel, 269 Ellery St., will build 4 story, 50 x 100 ft., brick and steel factory, rein.-con. flooring, concrete foundation, on Jefferson St. About $50,000. Work will be done by day labor.

★N. Y., Groton—Corona Typewriter Co., Inc., Corona, let contract building 2 story, 60 x 150 ft., concrete and brick addition to factory, rein.-con. flooring, concrete foundation, on Main St., here, to Lowman Constr. Co., 312 Railroad Ave., Elmira. About $100,000.

★N. Y., New York — J. P. Jacobs, 326 Audubon Ave., will build 1 story, 100 x 250 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Gerard Ave. and 149th St. About $100,000. Work will be done by day labor.

★N. J., Camden — Victory Talking Machine Co., Front and Cooper Sts., let contract building 1 story, 53 x 200 ft., concrete and steel power house, to White Constr. Co., 95 Madison Ave., New York City.

★N. J., Newark—A. Fink & Son, 810 Frelinghuysen St., let contract building 3 story, 28 x 180 ft., rein.-con. addition to packing house on Evergreen and Frelinghuysen Sts., to Amer. Concrete Steel Co., 27 Clinton St. About $60,000.

★N. J., Orange—Monroe Calculating Machine Co., 49 Mitchell St., let contract building 4 story, 67 x 175 ft. concrete factory to Amer. Concrete Steel Co., 27 Clinton St., Newark.

★N. J., Trenton—Mutual Pottery Co., Clinton Ave., let contract constructing plant and power house, to include few buildings, ranging from 1 to 5 story, brick, rein.-con. and steel, rein.-con. flooring, concrete foundations to Stone & Webster, 120 Bway., New York City. About $500,000. Noted April 29.

★Pa., Phila.—G. Shields, 231 North Juniper St., let contract building 2 story, 95 x 100 ft. brick garage at 212 North Juniper St. to D. Henwood, 717 South 63d St.

★Pa., Reading — Reading Steel Casting Co., Tulpehocken St. and Lehigh Valley R.R., let contract building 1 story, rein.-con. and brick machine shop, rein.-con. flooring, brick foundation, to Stone & Webster, 120 Bway., New York City. About $200,000.

★Md., Baltimore—Baltimore Buggy Top Co., 107 West Mt. Royal Ave., will build 3 story, 150 x 290 ft. rein.-con. and brick factory, concrete foundation, on Guilford Ave. near Chase St. About $150,000. Work will be done by day labor.

Md., Baltimore—Whitaker Paper Co., 415 Guilford Ave., received low bid building 8 story, 100 x 186 ft., rein.-con. and steel warehouse, concrete foundation, on Guilford Ave., Saratoga and Davis Sts., from B. F. Bennett Building Co., 123 South Howard St. About $1,000,000. Noted Aug. 12.

★Va., Danville—Riverside & Dan River Cotton Mills let contract building 1 story, rein.-con., brick and steel power plant, rein.-con. flooring, concrete foundation, to Aberthaw Constr. Co., 27 School St., Boston. About $100,000.

★O., Bucyrus—Ohio Crane Co. let contract building 1 story, 60 x 380 ft., brick and steel factory, brick foundation, to Austin Co., 16112 Euclid Ave., Cleveland. About $100,000.

★O. Cleveland—Joseph & Feiss Co., West 53d St., let contract building 2 story, 85 x 160 ft., rein.-con., brick and steel warehouse, rein.-con. flooring, concrete foundation, at 2150 West 53d St., to Stone-Webster Co., Leader-News Bldg. About $300,000.

Industrial Works (Continued)

★**Ind., Indianapolis**—Westinghouse Lamp Co., Watsessing Ave., Bloomfield, N. J., let contract constructing small building, also 5 story, 100 x 400 ft., rein.-con. and brick factory, rein.-con. flooring, on La Salle St., to D. E. Robinson Co., 125 East 46th St., New York City.

★**Mich., Port Huron**—A. B. Parfait let contract building 2 story, 100 x 300 ft., rein.-con. and brick service station, rein.-con. flooring, concrete foundation, on Military and Chestnut Sts., to A. Schultz, Port Huron. About $125,000. Noted Feb. 5.

★**Wis., Milwaukee**—H. N. Davis Co., 129 Michigan St., let contract building 2 story, 60 x 112 ft, concrete and mill construction factory, concrete foundation, on 32d St., to Riesen Bros., 86 Michigan St. Noted Aug. 12.

★**Wis., Milwaukee**—Milwaukee Bag Co., 206 South Water St., let contract building 1 story, 80 x 120 ft., brick and mill construction addition to factory, to Northern Constr. Co., 445 Milwaukee St. About $50,000.

★**Wis., Milwaukee**—R. B. Williamson, archt., Bway. Bldg., let contract to R. Zils, 294 Grand Ave., Wauwatosa, building 1 story, 80 x 150 ft., concrete and steel garage, rein.-con. flooring, concrete foundation, on Grand Ave., for Packard Motor Car Co., 35th St. and Grand Ave. Noted July 29.

★**Wis., Waukesha**—Standard Oil Co., Waldheim Bldg., Milwaukee, let contract building 1 story, 60 x 120 ft., concrete and brick garage and warehouse, rein.-con. flooring, concrete foundation, to L. Schroeder, 93 7th St., Fond du Lac. About $60,000.

★**Neb., Columbus**—Gottberg Auto Co. let contract building 2 story, 93 x 132 ft. rein.-con., brick and steel garage, rein.-con. flooring, concrete foundation, to Zuerlein & Woerth, Columbus. About $100,000; cost plus percentage basis. Noted Feb. 26.

★**Neb., Hastings**—Chicago, Burlington & Quincy R.R., Lincoln, will build 1 story, 10 stall, concrete, brick and steel roundhouse here. Private plans. F. T. Darrow, asst. ch. engr. Work will be done by day labor.

★**Mo., St. Louis**—Bridge & Beach Mfg. Co., 503 South 1st St., let contract constructing 17 buildings, to have 268,000 sq ft. floor space, including rein.-con. warehouse, steel molding room and several small wooden buildings, on Union and Brown Aves., to Fruin Colnon Contg. Co., Merchants Laclede Bldg. About $800,000.

★**Mo., St. Louis**—Magnus Metal Co., 4153 Clayton Ave., let contract building 1 story, brick and steel foundry, to Wimmer Constr. Co., Victorial Bldg. About $60,000.

★**Ark., Judsonia**—Arkansas Hydro-Electric Development Co., Little Rock, will build first unit of hydro-electric plant, on Little Red River, 18 mi. above here. White Co., to include 10,500 hp. plant, 32 x 100 ft., rein.-con. and steel, rein.-con. flooring, rock foundation, cost, $102,000, and 80 x 450 ft. rein.-con. and steel dam, rock foundation, cost $1,100,000. Ultimate plans call for construction of 4 dams. Work will be done by day labor. J. E. Sirrine, Greenville, S. C., consult. engr. Dickinson & Watkins, Little Rock, resident engrs.

★**Ont., London**—Grand Trunk Ry., Dundas St., will build 1 story, 80 x 225 ft. rein.-con. shop on Edgerton St. About $125,000. Work will be done by day labor.

★**Ont., Welland**—J. Stokes Rubber Co., Taylor and Webster Sts., Trenton, N. J., let contract building 1 story, 120 x 160 ft. plant and 50 x 50 ft. power house, brick and timber, on Johns and Bernard Sts. here, to Karne-Smith Co., Broad St. Bank, Trenton, N. J. About $100,000.

Buildings

PROPOSED WORK

Me., Augusta—Hotel—Augusta House, 168 State St., soon lets contract building 3 story, 26 x 130 ft. brick and steel addition, rein.-con. flooring, concrete foundation. Buckee & Savage, Augusta Trust Bldg., archts. Noted Aug. 5.

Me., Deering (Portland P. O.)—Convent, etc., St. Joseph's Convent had plans prepared by O'Connell & Shaw, archts., 18 Boylston St., Boston, Mass., for 1 and 4 story, concrete, brick and steel addition, rein.-con., flooring, concrete foundation. About $300,000.

Me.—Kennebunk—High School—Bd. Educ. plans to build 2 story, brick and steel. About $100,000.

Vt., Newport—High School—Bd. Educ. having plans prepared by Walker & Walker, archts., 101 State St., Montpelier, for 2 story, brick and steel. About $125,000.

Mass., Fall River—School—Supt. Pub. Bldgs. having plans prepared by E. M. Corbett, archt., 70 Bedford St., for 1 story, 8 room, brick, stone and steel, on President Ave. About $125,000. Noted June 17.

Mass., Gardner—Memorial—War Memorial—War Memorial Com. having plans prepared by P. Varney, archt., 25 Exch. St., Lynn, for brick, steel and concrete building, to include auditorium, police station and court house accommodations. About $350,000.

Mass., Northampton—Smith College plans to build rein.-con. and brick laundry on campus. About $100,000. W. M. Neilson, pres. Architect not selected.

Mass., Norton—Dormitory—Cram & Ferguson, archts., 15 Beacon St., Boston, soon let contract building 4 story, 45 x 120 ft., concrete, brick and steel, concrete foundation, on campus, for Wheaton College. About $100,000.

Mass., Pittsfield—Store and Office—Harding & Seaver, archts., 7 North St., soon let contract building 2 story, 42 x 130 ft., brick, concrete and terra cotta, rein.-con. flooring, concrete foundation, on North St. here for W. T. Grant Co., 28 West 23d St., New York City.

Mass., Roxbury (Boston P. O.)—School—Congregation, Adath-Jeshuron, 397 Blue Hill Ave., soon lets contract building 2 story, 70 x 120 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Howland and Warren Sts. About $150,000. Blackwell, Clapp & Whittemore, 20 Beacon St., Boston, archts. Noted Aug. 21.

Mass., Springfield—Church—Trinity Methodist Society, 37 Edwards Ave., plans to build 1 story, brick and stone, on Summer Ave. About $150,000. F. W. Adams, 37 Edwards Ave., pastor. Architect not selected.

Mass., Webster—Store, etc.—M. Holden, 51 Klebart Ave., soon lets contract building 3 story, 100 x 120 ft., brick and steel, concrete foundation, on Main St. About $100,000. Funk & Wilcox, 294 Washington St. Boston, archts. Noted Aug. 26.

R. I., Woonsocket—Lodge, etc.—Bldg. Com. B. P. O. E. plans to construct lodge. About $100,000. Architect not selected.

Conn., Waterbury—Theatre—P. Foti, et al, c/o C. J. Bailey, archt., 95 Bank St., soon lets contract altering and building 1 story, 70 x 110 ft., rein.-con., brick and steel addition, rein.-con. flooring, concrete foundation, on South Main St. About $150,000. Noted Aug. 12.

N. Y., Albany—School—Bd. Educ. plans to build brick and stone, brick foundation. About $150,000. W. T. Towner, Inc., 366-5th Ave., New York City, archt. and engr.

N. Y., Manhattan Beach (Brooklyn P. O.)—Club—Manhattan Beach Club, 170 Bway., New York City, plans to build 1½ story, stucco and hollow tile, brick foundation on Oriental Blvd., here. About $100,000. J. S. Scully, pres. Architect not selected.

N. Y., New York—Skating House—Dept. Parks, Municipal Bldg., plans to build 1 story, brick, steel, concrete and stone, in Central Park between Bow Ridge and West Drive, near 72d St. About $100,000. J. Burgevis, Municipal Bldg., archt. and engr.

N. Y., Perry—High School—Bd. Educ. having sketches prepared by W. T. Towner, Inc., archt. and engr., 366-5th Ave., New York City, for 2 story, brick and stone, brick foundation. About $125,000.

Pa., Coaldale—High School—Bd. Educ. opens bids about Oct. 10, building concrete and brick high school. About $125,000. J. J. Simpson, Essex Bldg., Newark, N. J., archt. Noted Aug. 19.

Pa., Johnstown—Office, etc.—Knickerbocker Fuel Co., 1st Natl. Bank Bldg., plans to remodel and construct 15 room addition to present office building, also construct concrete and steel garage on Vine St. About $100,000. H. M. Rogers, Trust Bldg., archt.

Pa., Swedeland—School—Upper Merion Twp. Bd. Educ., Norristown, plans to build 1 or 2 story, brick. Cost to exceed $100,000. G. E. Braumbaugh, Real Estate Trust Bldg., Phila., archt.

Pa., Washington—Theatre—S. Kosmos, Pine and Main Sts., having plans prepared by Carlisle & Sharer, archts., Arcade, Pittsburgh, for 2 story, 7[illegible] ft., brick and steel, rein.-con. [illegible] About $175,000.

Md., Baltimore—Church—St. Paul [illegible]eran Church, 1605 McCulloh St., [illegible] build church. About $125,000. P. [illegible]man, pastor.

Md., Baltimore—Home—Highland [illegible] 5, I. O. O. F., Eastern Ave. and [illegible] plans to build home at 316-20 South [illegible]land Ave. About $300,000. Archit[illegible] selected.

N. C., Greensboro—Office—J[illegible] Standard Life Insurance Co. receives bids in late fall, building 15 story, 50 x 1[illegible] on Elm and Market Sts. About $2,000,000. C. C. Hartmann, Greensboro, archt. Noted June 24.

Tenn., Nashville—Institution—State Legislature appropriated $100,000 to build institution for feeble-minded.

O., Akron—Theatre and Arcade—C. H. Crane, archt., 2325 Dime Bank Bldg., Detroit, Mich., soon lets contract building 4 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on South Main St., here, for Loew Theatrical Enterprises, 1493 Bway., New York City. About $500,000.

O., Alliance—Memorial—Mt. Union College plans to build 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $200,000. Walker & Weeks, 1900 Euclid Ave., Cleveland, archts.

O., Canton—Schools—W. C. Lane, clk. Bd. Educ. soon receives bids building two 2 story, brick schools, one on Belden Ave., N.E., and other on Grace Ave. N.E. About $300,000 each Thayer & Johnson, Cleveland, archts.

O., Cleveland—Bank and Office—Brotherhood of Locomotive Engrs., c/o W. S. Stone, Engrs. Bldg., having plans prepared by Knox & Elliott, archts., 1248 Rockefeller Bldg., for 20 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on St. Clair Ave. and Ontario St. About $5,000,000. Noted Aug. 12.

O., Cleveland—Commercial and Theatre—W. Yamshone, 9905 Ostend Ave., having plans prepared for 3 story, 120 x 200 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on East 141st St. and St. Clair Ave. About $250,000. Architect's name withheld.

O., Cleveland—Hospital—Babies' and Children's Hospital, c/o A. Garfield, archt. Natl. City Bldg., had plans prepared for 3 story, 60 x 150 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, at 11020 Euclid Ave. About $500,000.

O., Cleveland—Pharmacy—Western Reserve University, c/o E. Spease, dean, plan to build 3 story, rein.-con., brick and steel rein.-con. flooring, concrete foundation, on Adelbert Rd. and Euclid Ave. About $200,000. Architect not selected.

O., Cleveland—School—Bd. Educ., East 6th St. and Backwell Ave., having plans prepared by W. R. McCornack, archt., East 6th St. and Rockwell Ave., for 2 story school for crippled children, rein. con., brick and steel, rein.-con. flooring, concrete foundation, on East 116th St. and Buckeye Ave. About $500,000. F. G. Hogan, clk. Noted June 10.

O., Cleveland—Theatre and Office—B. F. Keith Theatre Co., 1564 Bway., New York City, plans to build rein.-con., brick and steel, rein.-con. flooring, concrete foundation here. About $1,000,000. Rapp & Rapp, 190 North State St., Chicago, Ill., archts.

O., East Cleveland (Cleveland P. O.)—Home—The A. M. McGregor Home, c/o A. T. Huntley, Lee Rd., plans to build 2 story brick and steel addition, brick and concrete foundation. About $200,000. Architect not selected.

O., Lorain—High School—Bd. Educ. having plans prepared by F. C. Warner, archt., Hippodrome Annex Bldg., Cleveland, for 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on East 21st St. and Seneca Ave. About $300,000. J. Bruell, clk.

O., Toledo—Schools—Bd. Educ. plans to issue $2,000,000 bonds within next year, to build 5 schools in various sections of city. W. C. Carr, pres.

O., Zanesville—Clubhouse—Amer. Rolling Mill Co., Linden Ave., rejected bids received Aug. 2, building 3 story, rein. con., brick and steel, rein. con. flooring, concrete foundation. About 200,000. Project postponed. Noted Aug. 19.

Buildings (Continued)

Ind., Evansville — Hospital — Deaconess Hospital had plans prepared by H. E. Boyle Co., archts., Furniture Bldg., for 3 story, 50 room, 53 x 121 ft. addition, rein.-con. and brick, rein.-con. floorings. About $200,000.

Ind., Indianapolis — School — Twp. Trustees, Saks Bldg., had plans prepared by E. J. Ostling, archt., Indianapolis, for 2 story, 75 x 118 ft., brick and stone, on Yoke St. About $100,000.

Ind., Lafayette—Office—Brotherhood of Painters, Decorators & Paperhangers plans to build 3 or 4 story, on 4th and Ferry Sts. About $120,000. Architect not selected.

Ind., Marion — Administration — Marion Mfrg. & Machine Co. had plans prepared for 2 story, 100 x 200 ft., rein.-con. and brick. About $100,000. Private plans.

Mich., Detroit—Memorial—City Memorial Com. having estimates made by Architects' Assn. for 2 story, 250 x 600 ft. rein.-con., brick, steel and stone, on John R St. J. A. Kronk, chn. Architect not selected.

Ill., New Rochelle—School—N. S. Spencer & Son, archts., 37 West Van Buren St., Chicago, soon receives bids building 3 story, 150 x 200 ft., brick and steel, for Bd. Educ. Bids are now being received for concrete foundation for above.

Wis., Bruce—Bank and Theatre—P. S. Krantz plans to build 2 story, 60 x 250 ft., brick, rein.-con. and steel, brick foundation, on Main St. About $100,000. Architect not selected.

Wis., Janesville—Theatre—T. Saxe, 160 5th St., Milwaukee, having preliminary plans prepared by M. Tullgren & Sons, archts., 425 East Water St., Milwaukee, for 1 story, 80 x 198 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, on West Milwaukee St., here. About $250,000.

Wis., Milwaukee — Temple — McKinley Lodge, F. & A. M., 872½ 39th St., had plans prepared by Buemming & Guth, archts., 521 Jackson St., for 2 story, 110 x 136 ft., brick, concrete foundation, on Lisbon Ave. About $100,000.

Ia., Ledyard—School—Bd. Educ. plans to build 2 story school. About $110,000. Kieffer & Jones, 209 Masonic Bldg., Des Moines, archts.

Minn., Chisholm—Municipal—City Council opens bids about Oct. 15, building 2 story, 195 x 300 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Main St. A. Puck, 801 Torrey Bldg., Duluth, archt. and engr.

Minn., Duluth—Church—T. D. Whittles, chn. Bldg. Comn., 2809 West 3rd St., opens bids about Oct. 1, building 2 story, 70 x 135 ft., rein.-con. brick and steel, rein.-con. flooring, concrete foundation on West 2nd St., for 2nd Presbyterian Church. About $125,000.

Kan., Hoxie—School—Bd. Educ. having plans prepared by Smith, Beattie & Co., archts., Nelson Bldg., Hutchinson, for 2 story, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation. About $100,000.

Neb., Dannebrog—School — Bd. Educ. plans to build 2 story, 53 x 90 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $100,000. W. Mampe, Shiedly Bldg., Kansas City, Mo., archt.

Neb., Lynch — Sanitarium — Benedictine Sisters plan to build sanitarium. About $100,000. Architect not selected.

S. D., Winner—School—Bd. Educ. had plans prepared by Grabe & Hellenburg, archts., Columbus, Neb., for 2 story, 57 x 68 ft. rein.-con. brick and steel, rein.-con. flooring, concrete foundation. About $110,000.

Tex., El Paso — Exchange—Tri-State Telephone Co., 510 Texas St., preparing plans for branch exchange. About $500,000.

Ont., Toronto—Pavilion—Toronto Harbor Comn., Harbor Comn. Bldg., had plans prepared for 1 story 100 x 400 ft. rein.-con. bathing pavilion. About $250,000. Private plans.

Ont., St. Thomas—Temple—St. Thomas Labor Temple Assn. having plans prepared and soon receives bids building 3 story, brick, concrete foundation, on Talbot St. About $150,000. N. R. Darrach, St. Thomas, archt.

BIDS DESIRED

Mass., Athol—Hall—Until Sept. 10, by F. A. Ball, chn., Memorial Bldg. Comn., building 2 story, 50 x 125 ft. with 50 x 80 ft. ell, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Main St. About $300,000. Noted Aug. 19.

N. Y., New York—School—Until Sept. 9, by C. B. J. Snyder, supt. school bldgs., Municipal Bldg., building P. S. 57, on Curtis and Jerome Aves., Queens Boro., for Bd. Educ., 500 Park Ave.

Pa., Erie—High School—Until Sept. 11, by Bd. Educ., building brick high school, rein.-con. flooring. W. B. Ittner, Bd. Educ. Bldg., St. Louis, Mo., archt.

Pa., Meadville—Theatre—Meadville Theatre Corp. receiving bids building 1 story, and 78 x 143 ft., 23 x 58 ft., brick and steel, rein.-con. flooring, on Park Ave. and Chestnut St. About $250,000. H. S. Blair, Vandergrift Bldg., Pittsburgh, archt.

Pa., Phila. — Synagogue — I. W. Levin, archt., 536 Ritmer St., receiving bids building 3 story, 80 x 100 ft., brick and terra cotta, on Porter and 8th St., for Congregation Shaare Sigah. About $100,000.

Pa., Pittsburgh — Sales — E. P. Mellen, archt., Vanderbilt Bldg., New York City, receiving bids building 2 story, rein.-con. on Friendship and Euclid Aves. here. About $100,000. Owner's name withheld.

Md., Baltimore — Theatre — Douglas Amusement Co., c/o Lachman & Murphy, archts. and engrs., Drexel Bldg., Phila., receiving bids building 1 story, 70 x 145 ft., brick, steel, stone and concrete, at 1317-1325 North Pennsylvania Ave. here. About $100,000.

O., Springfield—High School—Until Sept. 21, by Bd. Educ. building 2 story, 110 x 128 ft. brick and concrete on Maiden Lane. About $225,000. O. D. Howard, 8 East Broad St., Columbus, archt. Noted July 1.

Ind., Vincennes—Hospital—Until Sept. 8, by Good Samaritan Hospital, building two 2 story, brick and stone. About $142,000. J. B. Bayard, archt.

Mich., Grand Rapids—Hospital—Osgood & Osgood, archts., Grand Rapids, receiving bids building 2 story, 42 x 146 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation, for Kent Co. About $175,000.

Ill., Granite City—High School—Until Oct. 1, by W. B. Ittner, archt. and engr., Bd. Educ. Bldg., St. Louis, Mo., building 3 story, brick, rein.-con. flooring, for Bd. Educ. About $225,000. Noted Aug. 5.

Wis., Adams — Church — St. Joseph Church receiving bids building 2 story, 60 x 180 ft., brick, rein.-con. and steel, concrete foundation, on Main St. About $100,000. E. Brielmaier & Sons Co., University Bldg., Milwaukee, archts.

Wis., Fond du Lac—School—Until Sept. 15, by Bd. Educ., Building 3 story, 66 x 260 ft. and 100 x 200 ft., high and vocational schools, rein.-con. and brick, rein.-con. flooring, concrete foundation. About $350,000. A. Hunter, secy. Childs & Smith, 64 East Van Buren St., Chicago, archts. Noted June 10.

Wis., Milwaukee—Office, etc.—A. D. Koch, archt., Wells Bldg., receiving bids furnishing concrete for foundation and constructing 1 story of 4 story, 75 x 100 ft., brick, rein.-con. and steel office and service building, rein.-con. flooring, concrete foundation, on 4th and Sycamore Sts., for Standard Oil Co., Brumder Bldg. Total cost $300,000. Noted Feb. 5.

Ia., Wiota—School—Until Sept. 22, by Bd. Educ., building 1 story, 60 x 70 ft., brick. About $100,000. Porter & Schreiber, Peters Trust Bldg., Omaha, Neb., archts. Noted March 25.

Kan., Kansas City—Passenger Station—Until Sept. 8, by Kansas City Terminal Ry., Union Sta., Kansas City, Mo., building 1 story, 34 x 141 ft., rein.-con., terra cotta and brick, rein.-con. flooring, also 23 x 34 ft. head house, 50 ft. high. About $150,000. Rose & Peterson, Barker Bldg., archts. J. V. Hanna, Union Sta., Kansas City, Mo., engr. Noted Aug. 12.

Neb., Hastings—Memorial—Hastings College receiving bids building 2 story, 102 x 170 ft. rein.-con., brick and steel. About $150,000. Miller, Fulenwider & Dowling, 6 North Michigan Ave., Chicago, archts.

S. D., Huron—Court House—Until Oct. 12, by Beadle Co., building 3 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $400,000. W. E. Hulse & Co., Sioux City, Ia., archts. Noted Feb. 19.

N. D., Marmarth—High School—Until Sept. 14 (change of date) by H. H. Bond, clk. Bd. Educ. building 2 story, 61 x 91 ft. rein.-con. brick and tile. About $100,000. Keith & Kurke, Fargo, archts. Noted Aug. 19.

Col., Haxton—Church—Until Sept. 7, by A. Eitelgeorge, minister Methodist Episcopal Community Church, building 2 story, brick and steel, with 60 ft. tower, to have 2 wings, one 50 x 83 ft. and other 50 x 102 ft. About $100,000. Wilson & Wilson, Commonwealth Bldgs., Denver, archts.

Ont., London—Hospital—Until Sept. 6, by Watt & Blackwell, archts., Bank of Toronto Bldg., constructing 3 story, 55 x 165 ft., concrete and brick, on Ottaway Ave., for Daughters of the Empire. About $250,000.

Ont., London—Hotel—Until Sept. 11, by Benson Hynes Hotel Co., building 16 story, brick and steel, on Richmond St. About $1,500,000. Ross & McDonald, 1 Belmont St., Montreal, Que., archts. Noted July 22.

Ont., London—Nurses' Home—H. C. McBride, archt., Molsons Bank Bldg., receiving bids building 3 story, 60 x 80 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, for Westminster Psychopathic Hospital. About $125,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. H., Portsmouth—Hospital—Portsmouth Hospital, Junkins Ave., let contract building 3 story, brick and rein.-con., rein.-con. flooring, concrete foundation, to C. E. Currier Co., 10 High St., Boston. About $225,000. Noted May 13.

★Mass., Boston—Office—Thorndike Estate, 722 Tremont Bldg., let contract converting Hotel Thorndike (6 story) into office building, to J. W. Drake, 226 Border St., East Boston. About $100,000.

★Mass., Brockton—Theatre—A. H. Bowditch, archt., 44 Bromfield St., Boston, let contract, to W. J. Sinnott, 68 Devonshire St., Boston, building 2 story, 140 x 190 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, on Main St., here, for Breyfus & Bardol, 17 Milk St., Boston. About $300,000. Noted July 22.

★Mass., Brookline (Boston P.O.)—Hospital—Peter Bent Brigham Hospital, Huntington Ave., let contract building 1 story, 40 x 140 ft. brick, concrete and steel addition to Ward Bldg. "A", rein.-con. flooring, concrete foundation, on Huntington Ave., to Whidden-Beckman Co., 100 Boylston St., Boston. Noted Aug. 12.

★Mass., Wareham—School—Bd. Educ. let contract building 1 story, 100 x 160 ft., tile, brick and steel, concrete foundation, on Highland and Gibbs St., to Schwarz Bros. Co., 95 River St., Bridgeport, Conn. About $100,000.

★Conn., Wallingford — School — Choate School for Boys let contract building 3 story, brick, rein.-con. and steel addition, rein.-con. flooring, concrete foundation, to C. F. Wooding Co., Wallace Ave. About $150,000. Noted April 8.

★N. Y., New York—Loft—Herald Square Printing Co., c/o H. C. Volz, archt. and engr., 373 Fulton St., Brooklyn, will build 8 story, brick, stone and steel. Work will be done by day labor under supervision of archt.

★N. Y., New York—Office—R. Dunther and R. Law, Inc., 25 Broad St., let contract building 5 story, 40 x 50 ft., brick, steel and stone, at 131 Nassau St., to R. Deeves & Bro., 103 Park Ave. About $100,000. Noted June 10.

★N. Y., New York—Office—Lawyers Mortgage Co., 59 Liberty St., let contract building brick, steel and stone, concrete foundation, on Maiden Lane and Nassau St., to Cauldwell-Wingate Co., 381 4th Ave. About $1,500,000. Noted April 15.

★N. Y., New York—Theatre—M. Klaw, Commercial Trust Bldg., let contract building brick and stone, brick foundation, on 45th St. between Bway. and 8th Ave., to Jardin Co., Inc., 507 5th Ave. About $300,000. Noted June 10.

N. Y., New York—Theatre and Showroom—Manbridge Realty Co., care of Gronenberg & Leuchtag, archts. and engrs., 303-5th Ave., will build 2 story, 100 x 115 ft., brick and stone, on East Bway., Forsyth, Market and Henry Sts. About $250,000. Work will be done by day labor.

N. Y., Syracuse—Sanatorium Pavilion—Onondaga Co. received bids constructing (1) childrens building (2) adults building at Onondaga Sanatorium, Hoppers Glen, (a) general contract (b) heating plant, from O'Brien Constr. Co., McCarthy Bldg., (1a) $115,000, (2a) $96,691; J. W. Dawson, Union Bldg., (1a) $114,000, (2a) $91,960; Shane Constr. Co., Herald Bldg., (1a) $111,534, (2a) $91,118; E. Joy, 133 Market St., (1b) $25,373, (2b) $12,778, E. Bates, 228

Buildings (Continued)

West Water St, (1b) $23,404 (2b) $9,550; W. B. Goldie, 274 James St., (1b) $20,174, (2b) $10,314; J. P. Sheehan Co., (1b) $20,548, (2b) $9,290.

★**Pa., McKeesport** — Bank — First Natl. Bank let contract building 2 story, 60 x 77 ft., brick, concrete and steel, rein.-con. flooring, on 5th Av. and Walnut St., to Strandberg Bros., 19 South La Salle St., Chicago. About $100,000. Noted July 17.

★**Pa., Woodlawn**—Theatre and Store—E. Harvey let contract building 1 and 3 story, 75 x 150 ft., rein.-con. and steel, to E. E. Shaffer, New Brighton. About $125,000. Noted May 6.

★**Md., Baltimore**—Office—Merchants & Manufacturers Assn. 109 East Redwood St., let contract converting 6 story, steel, hollow tile and marble warehouse into office, at 20-24 Light St., to Frainie Bros. & Haigley, 18 Clay St. About $100,000. Noted May 20.

★**Fla., Jacksonville**—Bank—Atlantic Natl. Bank, 121 West Forsyth St., let contract building 1 story, 50 x 100 ft. brick and stone, concrete foundation, to W. P. Richardson, Jacksonville. About $100,000. Noted May 1, 1919.

★**Ala., Birmingham**—Church — Norwood Methodist Church will build 114 x 137 ft. brick, on 31st St. and 13th Ave. About $100,000. Work will be done by day labor under supervision of C. T. Holmes, supt.

★**O., Cleveland** — Commercial — K. V. Painter, 6523 Euclid Ave., let contract building 8 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on East 30th St. and Euclid Ave., to A. W. Kilbourne Co., 6523 Euclid Ave. About $1,000,000.

★**O., Cleveland**—Hall—City let contract supplying brick, cement, lime and mortar, for 4 story, 180 x 420 ft., fireproof (now under construction), on East 6th St. and St. Clair Ave., to Cleveland Builders' Supply & Brick Co., Leader-News Bldg. About $223,000. Noted April 22.

★**O., Columbus** — Hospital — Mercy Hospital Assn., 1430 South High St., let contract building 3 story, 100 x 130 ft. addition, to E. K. Hibbs Eng. & Constr. Co., 1153 Neil Ave. About $100,000; cost plus percentage basis.

★**O., Columbus**—School—Bd. Educ. let contract building 2 story, 110 @ 190 ft. school, on Sullivant Ave., to E. H. Latham & Co., 60 East Broad St., $226,879. Former contract rescinded. Noted Aug. 5.

O., Lorain—School—Bd. Educ. received bids Aug. 11, building 1 story, 12 room, rein. con., brick and steel, rein. con. flooring, concrete foundation, on 4th St. and Hamilton Ave., from C. Peterson Co., 4500 Euclid Ave., Cleveland, $214,000; G. Kratt, Lorain, $218,522. Noted Jan. 15.

★**Ind., Evansville**—Hotel and Theatre—Standard Realty Co. let contract building 3 story, 110 x 180 ft., rein.-con. and brick, rein.-con. flooring, on 6th and Main Sts., to M. J. Hoffman Constr. Co., Furniture Bldg. About $692,000. Noted Aug. 5.

★**Ind., Evansville** — Theatre — Vendome Theatre Co. let contract building 2 story, 145 x 190 ft. rein.-con., brick and steel, rein.-con. flooring, on 3rd and Sycamore Sts., to M. J. Huffman Constr. Co., Furniture Bldg. Noted July 22.

★**Ill., Mt. Carmel**—Bank—C. Shopbell & Co., archts., Furniture Bldg., Evansville, Ind., let contract to Barbour Constr. Co., Louisville, Ky., building 2 story, 45 x 75 ft., brick and stone, for 1st Natl. Bank here. About $100,000. Noted April 22.

★**Wis., Milwaukee** — Hospital—E. Brielmaier & Sons, archts., University Bldg., let contract to S. M. Siesel, 105 Wells St., building 5 story, rein.-con. and brick addition, rein.-con. flooring, concrete foundation, for Mt. Sinai Hospital, 246 12th St. About $300,000. Noted June 17.

★**Wis., Racine**—Isolation Hospital—City let contract building 2 story, concrete and brick, rein.-con. flooring, concrete foundation, to A. C. Kappel, 800 6th St., $98,178 Noted July 22.

★**Minn., Minneapolis**—School—Bd. Educ. let general contract building Eugene Field School, 2 story, 60 x 90 ft., rein.-con. and brick, on 46th Ave. between 4th and 5th Aves., to F. N. Hegg, 2942 Nicollet Ave., $76,995; heating, plumbing and ventilating, to Western Heating Co., 13 East 36th St., $21,453.

★**Minn., St. Cloud**—School—Bd. Educ. let general contract building 2 story, to A. G. Wahl, St. Cloud, $91,532; heating and plumbing to J. P. Bisenius, St. Cloud, $26,413.

★**Neb., Columbus** — Courthouse — Bd. Supervs. Platte Co. will build 4 story, 70 x 106 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $220,000. Work will be done by day labor under supervision of H. Woerth, supt.

★**Mo., St. Louis**—Schools—Bd. Educ. let contracts building J. J. Roe and W. Stix Schools, each 3 story, brick, rein.-con. flooring, to Kellerman Constr. Co., Victoria Bldg., $298,458 and $437,799 respectively.

★**Mo., St. Louis**—School—Bd. Educ. let contract building 3 story, brick, rein.-con. flooring, to E. C. Gerhard Bldg. Co., Post-Dispatch Bldg., $280,268.

★**Mo., St. Louis**—School—Bd. Educ. let contract building 3 story, 60 x 200 ft., brick, rein.-con. flooring, on Landsdowne Ave., to Murch Bros. Constr. Co., Ry. Exch. Bldg., $328,930.

★**Col., Glenwood Springs**—School—School Dist. let general contract building 2 story, 61 x 184 ft. school, to Windsor & Lund Contg. Co., Denver, $148,500. Noted June 3.

★**Ont., London** — Hotel — Benson-Hines Hotel Co., let contract building 11 story, concrete, brick and steel, concrete foundation, on Richmond St., to G. A. Fuller Co., 45 St. Alexander St., Montreal, Que. About $1,500,000. Noted July 22.

★**Ont., Toronto**—Business—E. N. Bartlett, Victoria Blk., let general contract building 3 story, 80 x 100 ft. concrete, brick and steel, concrete foundation, to J. V. Gray Constr. Co., 541 Queen St. E.; steel, to Dominion Bridge Co., Imperial Life Bldg. Total cost $125,000.

Federal Government Work

PROPOSED WORK

Mass., Chelsea—Alterations and Additions to Main Building, etc.—Spec. 4273—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to alter and construct addition to main building and heating plant, here.

Mass., Chelsea—Lighting—Spec. 4281—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install lights in buildings, here.

N. Y., Ft. Adams—Ordnance Machine Shop—Constr. Div., U. S. Army, Wash., D. C., plans to build, here. Bids will be opened by constructing quartermaster at army post.

N. Y., Brooklyn—Remodeling Building—Spec. 4282—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to remodel Bldg. "A", here.

N. Y., Ft. Wadsworth—Stable—Constr. Div., U. S. Army, Wash., D. C., plans to build 26 x 100 ft., here. Bids will be opened by constructing quartermaster at army post.

Md., Annapolis—Boiler—Spec. 4269—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install, here.

D. C., Wash.—Storehouse—Spec. 4155—Bureau Yards & Docks, Navy Dept., soon receives bids building for combustibles; $10 deposit required for plans and spec. Noted April

Va., Ft. Monroe—Office, etc.—Constr. Div., U. S. Army, Wash., D. C., plans to build 1 story addition to office and new booster pump house, here. Bids will be opened by constructing quartermaster at army post.

Va., Hampton Roads—Distilling Plant—Spec. 4272—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here.

Va., Quantico—Water Supply Main—Spec. 4200—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids building 16 in. c.i. water supply main, at Marine Barracks here; $10 deposit required for plans and spec. Noted May 27.

S. C., Ft. Moultrie—Machine Shop—Constr. Div., War Dept., Wash., D. C., plans to build addition, here. Bids will be opened by constructing quartermaster at army post.

Fla., Key West—Distillation Plant—Spec. 4268—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here.

Mich., Battle Creek — Remodeling Post Office—Treas. Dept., Wash., D. C., rejected only bid received July 30, remodeling, here. Noted Aug. 5.

Col., Ft. Lyon—Gymnasium—Spec. 4271—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here.

Cal., Mare Island—Remodeling Building—Spec. 4276—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to remodel Bldg. 52, here.

Cal., San Diego—Dredging—Spec. 4287—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans, here.

Cal., San Diego—Fire Alarm System—Spec. 4288—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install here.

Cal., San Diego—Quartermaster House—Spec. 4280—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here.

H. T. Pearl Harbor—Improving Boiler Plant—Spec. 4270—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to improve, here.

BIDS DESIRED

N. C., Wilmington—Sound Deadening Wall and Ceiling Covering—Until Sept. 24, by Treas. Dept., Wash., D. C., furnishing and installing in court room in customhouse and appraisers stores, here.

La., New Orleans—Refrigerating Machine—Until Sept. 23, by Treas. Dept., Wash., D. C., installing at Post Office and Courthouse, here. J. A. Wetmore, superv. archt.

Ill., Freeport—Remodeling Post Office and Courthouse—Until Sept. 15, by Treas. Dept., Wash., D. C., remodeling, here. J. A. Wetmore, superv. archt.

Cal., Mare Island—Mechanic Shop, etc.—Spec. 4127—Until Sept. 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building mechanic shop, filling house, shell house and magazine building, here.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., Augusta**—Altering Post Office and Courthouse—Treas. Dept., Wash., D. C., let contract altering, here, to G. E. Wright Inc., 1461 Monadnock Blk., Chicago, $7,580. Noted Aug. 12.

★**N. H., Portsmouth**—Boiler and Stokers—Spec. 4124—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract removing from old hickory powder plant, Jacksonville, Tenn., and re-erecting same, at Navy Yard, here, to C. J. Elsinger, 141 7th Ave., Brooklyn, N. Y., $33,136 (150 days). Noted Aug. 19.

★**N. J., Jersey City**—Remodeling Post Office—Treas. Dept., Wash., D. C., let contract remodeling, here, to D. W. Conner, 15 West 91st St., New York City, $19,000. Noted Aug. 12.

★**D. C., Wash.**—Repairing Locomotive—U. S. Engr. Office, War Dept., let contract repairing, here, to Contractors Serv. Co., 50 Church St., New York City, $6,800.

D. C., Wash.—Repairing Wharf and Slips—Spec. 4260—Bureau Yards & Docks, Navy Dept., received only bid Aug. 25, repairing Wharf 3 and Slips 2 and 3, from L. A. Clark & Son, 10th St. and Wharf N. W., $4,400 (30 days). Noted Aug. 19.

Va., Roanoke—Remodeling Post Office and Courthouse—Treas. Dept., Wash., D. C., received bids Aug. 27, remodeling here, from E. E. Garber, Bethlehem, Pa., $2,000; D. J. Phipps, Roanoke, $2,325; Eubank & Caldwell, Roanoke, $2,711. Noted Aug. 5.

O., Fairport—Station and Accessories—Treas. Dept., Wash., D. C., received bids Aug. 25, bui'ding at Coast Guard Sta. 238, here, from W. F. Martens, 53 Franklin St., Rochester, N. Y., $24,755 (120 days); King Lumber Co., Charlottesville, Va., $29,700. Noted Aug. 5.

Ind., South Bend—Remodeling Post Office—Treas. Dept., Wash., D. C., received bids Aug. 23, remodeling here, from G. E. Wright, Inc., 1461 Monadnock Blk., Chicago, $9,889; King Lumber Co., Charlottesville, Va., $11,858; Theriault Constr. Co., 534 East Johnson St., Phila., $12,282. Noted Aug. 5.

★**Wyoming—Road Work**—J. S. Bright, dist. engr., Bureau Pub. Rds., 301 Custom House, Bldg., Denver, Col., let contract building 4 mi. Encampment-Slater Rd., Carbon Co., to Ames & Braisted, Laramie, $25,000; 3 mi. Centennial-Brooklyn Lake Rd., Albany Co., to Stenson & Swanson, Denver, $25,000.

Tex., Del Rio—Sewage Ejector—Treas. Dept., Wash., D. C., received bids Aug. 27, installing in Post Office and Courthouse, here, from C. J. Gleason, Augusta, Ga., $4,935; J. L. Powers, Bennettsville, S. C., $6,041. Noted Aug. 12.

Federal Government Work (Continued)

★**N. M., Ft. Stanton**—Boiler and System of Piping—Treas. Dept., Wash., D. C., let contract installing at U. S. Sanatorium, here, to C. Irving, 1525 Larimer St., Denver, Col., $12,584.

Cal., San Diego—Cold Storage Plant—Pub. Wks. Office received bids building at Marine Base, here, from C. M. Cay Co., 2650 Sante Fe Ave., Los Angeles, $24,000; T. Haverty Co., 801 Maple St., Los Angeles, $44,000.

★**H. T, Pearl Harbor**—Temporary Storehouse—Spec 4229—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building, here, to Hawaiian Constr. Co., Pearl Harbor, $44,937 (100 days). Noted July 8.

Miscellaneous

PROPOSED WORK

Athletic Field—Cambridge, Mass.—Massachusetts Institute of Technology plans to build athletic field north of Riverbank Court. About $100,000. Architect not selected.

Granite Gateway, etc.—Cambridge, Mass.—Mt. Auburn Cemetery, 199 Washington St., Boston, having plans prepared for granite gateway on Mt. Auburn St. entrance to cemetery, here, also 1 story, 25 x 45 ft. rest house. Cost to exceed $25,000. R. H. Doone, 75 Newbury St. Boston, archt.

Distributing System — Carey, O. — City plans to rebuild distributing system. About $90,000. Froehlich & Emery, 2d Natl. Bank Bldg., Toledo, engrs.

Electric Equipment—Cleveland, O.—City plans to purchase wire, cables, transformers, equipment, meters and service equipment, for municipal light plant. About $100,000. G. Beckwith, City Hall, engr.

Dock — Superior, Wis. — Minneapolis, St. Paul & Sault Ste. Marie R R., Soo Line Bldg., Minneapolis, having plans prepared for 1,250 ft. concrete and steel dock, 500 ft. wide across face, here. About $1,000,000. E. A. Whitman, Minneapolis, ch. engr.

Pier—San Diego, Cal.—Common Council retained Barnard & Leeds, consult. engrs., Central Bldg., Los Angeles, to prepare plans for new municipal pier of mole type. Bonds voted for project.

Tanks—Montreal, Que.—Montreal Locomotive Wks., Dominion Express Bldg., St. James St., plans to erect two 30 x 30 ft. tanks at 3513 Notre Dame St., E. About $40,000.

Pumps—New Toronto, Ont.—Town having plans prepared by E. A. James Co., Ltd., engrs., 36 Toronto St., Toronto, for 2 centrifugal 3 stage pumps 320 ft. head, with 2,000 gal. per minute capacity, electrically driven. About $20,000.

Harbor Improvements—Port Stanley, Ont.—Dept. Pub. Wks., Western Blk., Ottawa, having plans prepared by J. B. Hunter, engr., Ottawa, for harbor improvements and new swing bridge, here. About $350,000. Noted July 22.

BIDS DESIRED

Sewer Cleaner—Lockport, N. Y.—Until Sept. 20, by J. L. Greenman, clk., City Bldg., purchasing small sewer cleaner; advertised in this issue.

Bulkheads and Jetties—New York, N. Y.—Until Sept. 9, by Park Bd., at office of Dept. Parks. Municipal Bldg., furnishing labor and material repairing bulkheads and jetties at Jacob Riis Park, Neponsit, Queens Boro.

Coal Conveyor—New York, N. Y.—Until Sept. 9, by Dept. Pub. Welfare, Municipal Bldg., furnishing and building in power house at Seaview Hospital, Richmond Boro. B. S. Coler, comr.

Heating and Ventilating Apparatus—New York, N. Y.—C. B. J. Snyder, supt. school bldgs., Municipal Bldg., rejected bids received Aug. 23, installing heating and ventilating apparatus in P. S. 119 and 172. Work will be readvertised. Noted Aug. 19.

Shafts—New York, N. Y.—Until Sept. 21, by New York State Bridge & Tunnel Comm. and New Jersey Interstate Bridge & Tunnel Comm., Room 616, Hall of Records, Manhattan Boro., building 2 shafts for vehicular tunnel under Hudson River; advertised in this issue. Noted Aug. 26.

Retaining Wall—Asbury Park N. J.—Until Sept. 15, by A. G. King, city clk., furnishing labor and material building 125 lin.ft. rein.-con. retaining wall along easterly shore of Deal Lake, here; advertised in this issue.

Tarvia and Crushed Stone—Bloomfield, N. J.—Until Sept. 7, by D. F. Peck, town clk., furnishing 12,000 gal. tarvia and 4,000 ton crushed stone. E. Baechling, Bloomfield Natl. Bank Bldg., town engr.

Sewer Cleaning Machine—Newark, N. J.—Until Sept. 7, by T. L. Raymond, dir. Dept. Streets & Pub. Impvts., City Hall, furnishing and delivering 1 turbine sewer cleaning machine, complete with necessary equipment and appliances.

Fire Alarm System—Baltimore, Md.—Until Sept. 8, by Bd. Awards, care of City Register, furnishing, delivering and installing fire alarm telegraph equipment, including receiving and sending apparatus, batteries, switchboard, etc., for Fire Dept. About $90,000.

Gate Valves, Sleeves, etc.—Detroit, Mich.—Until Sept. 14, by Comn. Purchases & Supplies, Municipal Courts Bldg., furnishing 743 gate valves, 329 tapping sleeves and 810 tapping gates. Separate bids will be received for gate valves. T. A. Leisen, Waterworks Dept., engr.

Water Mains and Sewer Pipe—Hartford, Wis.—City soon receives bids furnishing several carloads water mains and sewer pipe to be used for extensions in various streets. W. Radke, clk. Private plans.

Paving Materials—St. Paul, Minn.—Until Sept. 6, by H. W. Austin, city purch. agt., furnishing following material for paving Mounds Blvd. from Clermont to Mounds Sts., 1,204 bbl. portland cement, 488 cu.yd. crushed rock for concrete base 365 cu.yd. screened sand, cost $6,100. Alley in Block 2, Summit Pk addition, 232 bbl. portland cement, 186 cu.yd. crushed rock for concrete base, 112 cu.yd. concrete sand, 20 tons asphalt, 76 cu.yd. fine asphalt sand, 38 cu.yd. coarse asphalt sand, 23 tons limestone dust, 27 tons trap rock and 54 tons binder stone, $2,950; Block 3, Warrendale addition, 228 bbl. portland cement, 182 cu.yd. crushed rock for concrete base, 110 cu.yd. concrete sand, 20 tons asphalt, 75 cu.yd. fine asphalt sand, 37 cu.yd. coarse asphalt sand, 23 tons limestone dust, 27 tons trap rock and 54 tons binder stone, $3,240. O. Claussen, city engr.

Mo., St. Joseph—S. Hotchkiss, 18th and Pennsylvania Sts., receiving bids for 2 trucks, concrete mixer, hoists, tower, etc., for school in Slater, Mo.

Road Materials—Cleburne, Tex.—Comrs. Johnson Co. receiving bids furnishing 10,000 bbl. portland cement, 600,000 lb. reinforcing steel, 10,000 cu.yd. pit run-con. gravel, 10,000 cu.yd. crushed rock and 5,000 cu.yd. concrete sand. Whitaker & Washington, co. engrs.

Blade Graders—Dallas, Tex.—C. E. Gross, and Dallas Co., receiving bids furnishing two 10 in. blade graders with engine hitch and scarifying attachments.

Arizona—Road Work—Until Sept. 9, by E. S. Wheeler, dist. engr., U. S. Dept. Agriculture, Bureau Pub. Rds., 218 Luna-Strickler Bldg., Albuquerque, N. M., building 10.02 mi. Salt River-Pleasant Valley, Sect. 2-C Project, 20 ft. wide, located within Tonto Natl. Forest, Gila Co., involving 25 acres clearing and grubbing, 4,767 cu.yd. rock and 59,087 cu.yd. common excav., 1,766 lin.ft. 18 in., 24 in. and 36 in. C. M. P. culverts, 590 lin.ft. 12 in., 18 in., 24 in, 30 in., and 36 in. C. M. P. culverts, etc.

Breakwater—Port Colborne, Ont.—Until Sept. 10, by Dept. Pub. Wks., Western Blk., Ottawa, repairing 3 parts of superstructure of western breakwater, 496 ft., 134 ft. and 31 ft. lengths, in concrete and stone, including head block, etc. About $170,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

Dams, Power House, etc.—Windsor, N. S.—T. B. Akins, Windsor, and Wright & Jodfrey, Wolfville, are interested in company which plans to build 1 concrete dam, 3 wooden storage dams, canal, flume, power house and pulp mill, involving 25,000 cu.yd. earth and 20,000 cu.yd. rock excav., 1,500 cu.yd. rein.-concrete and 8,000 cu.yd. mass concrete, etc. About $250,000.

Lighting System — London, Ont. — Until Sept. 11, by C. Forrester, supt. Grand Trunk Ry., Dundas St., London, building electric lighting system in yards here, including switch lamps, signals, etc.

Pump and Pipe—London, Ont.—Utilities Comrs. receiving bids furnishing 1 electrical driven waterworks pump with 500,000 Imp. gal. per day capacity, also 25,000 ft. 6-10 in. c.i. pipe and 20 tons ¾ in. lead pipe. E. V. Buchanan, Hydro Offices, genl. mgr.

Breakwater—Port Maitland, N. S.—Until Sept. 14, by Dept. Pub. Wks., Western Blk., Ottawa, Ont., building addition to east breakwater, 221 ft. cribwork, stone fill, 11 ft. 3 in. wide on west end and 11 ft. 8 in. wide on east end. About $35,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

Pier, Toronto, Ont. — Until Sept. 14, by Dept. Pub. Wks., Western Blk., Ottawa, building 466 ft. of superstructure of the east pier of eastern channel to Toronto Harbor. Work includes stone filled cribs, solid timber face walls, etc.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Coal Pocket—Springfield, Mass.**—W. H. Miner Chocolate Co., Berkshire Ave., let contract building 1 story, 50 x 50 ft., rein.-con. coal pocket, to E. F. Carlson Co., 244 Main St.

★**Waterway—Bellefont (Providence P. O.) R. I.**—Imperial Printing & Finishing Co. let contract building 4 x 800 ft. concrete waterway, 10 ft. deep, at plant, to C. I. Bigney Constr. Co., 357 Westminster St., Providence.

★**Retaining Walls—Bridgeport, Conn.**—E. M. Jennings Co., Inc., 277 Fairfield Ave., let contract building rein.-con. retaining walls, cement concrete roadways, driveways and sidewalks, at garage on Harrison St., to T. J. Pardy Constr. Co., 1484 Seaview Ave. About $25,000.

★**Swimming Pool—Noroton, Conn.**—J. A. Harris, Collenders Point, will build 50 x 110 ft. concrete and marble swimming pool. About $50,000. Work will be done by day labor. Noted Aug. 26.

★**Stadium and Playground—New York, N. Y.**—I. L. Rice, c/o Herts & Robertson, archts. and engrs., 331 Madison Ave., let contract building brick, steel, stone and concrete, in Central Park, to T. J. Buckley Eng. Co., 303 5th Ave. About $1,000,000.

★**Generator, Condensers, etc.—Cleveland, O.**—City let contracts furnishing one 10,000 kw. steam turbo generator, to Allis-Chalmers Mfg. Co., 1121 Schofield Bldg., Cleveland, $188,000; switchboard, to Westinghouse Mfg. Co., 6905 Susquehanna St., Pittsburgh $12,707; condenser and auxiliaries, to Wheeler Condenser Co., Indianapolis, Ind., $65,000. Noted Aug. 19.

River Wall—Milwaukee, Wis.—City received bid Aug. 24, building 546 ft. rein.-con. river wall along Milwaukee River, from H. Hohensee, Ludington Ave., Wauwatosa, $57.67 per lin.ft.

★**White Way System—Bemidi, Minn.**—City let contract furnishing 126 posts and 440 candlepower series lamps, for white way system, to Naylor Electric Co., Bemidji, $29,883.

★**Paving Materials—St. Paul, Minn.**—City let contract furnishing 2,970 bbl. Portland cement, to St. Paul Builders Materials Co., 606 Ryan Bldg., $4. per bbl.; 2,227 cu.yd. crushed rock for concrete base, and 1,338 cu.yd concrete sand, to Stiefel Materials Co., 501 Concord St., $2.90 and $1.80 per cu.yd respectively; 273 tons limestone dust, to Minnesota Crushed Stone Co., 1500 Johnson St. N. E., $5.75 per ton; 655 tons binder stone, to St. Paul Crushed Stone Co., Stewart and Victoria Sts., $2.75 per ton; asphalt, to Minnesota Road Equipment Co., 708 Plymouth Bldg., $29.70 per ton. Noted Aug. 26.

★**Gas Mantles, etc.—St. Louis, Mo.**—Bd. Pub. Serv. let contracts furnishing 300,000,000 cu.ft. gas for gas lights in city streets and parks, to Laclede Gas Light Co., Laclede Gas Light Bldg., at $0.85 per m cu.ft.; 20,100 single, 724 double and 110 triple mantle lamps, to Welsbach Street Lighting Co., Laclede Gas Light Bldg., $375,160, all for 1 year beginning Sept. 1. Noted Aug. 12.

Gasoline, etc.—St. Louis, Mo.—Bd. Pub. Serv. received only bid Aug. 20, furnishing gasoline and maintaining 2,600 gasoline lights, from Welsbach Street Lighting Co., Laclede Gas Light Bldg., $111,592.

Lighting System—Kincardine, Ont.—Town will remodel and extend electric system, including wiring, transformers, and general equipment. About $40,000. Work will be done by day labor under supervision of E. McLeod, supt.

★**Coal Plant—Toronto, Ont.**—J. A. Harrison Coal Co, Ltd, 57 Brock Ave, let contract building concrete, coal elevating and storage plant with 15,000 ton capacity, including elevating machinery, electrically operated and concrete storage bins, to J. B. Nicholson & Co., 36 Toronto St. About $35,000.

OFFICIAL PROPOSALS

Bids: Sept 9

Barge Canal Terminals

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N Y., until twelve o'clock noon of Thursday, September 9th, 1920, at which place and hour they will be publicly opened and read, for the construction of Barge Canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and amendatory laws, and Chapter 402 of the Laws of 1920, as follows:

—1—

TERMINAL CONTRACT NO. 26-A.
For completing the terminal at Rouses Point
Contract plans, sheets 1 to 2

—2—

TERMINAL CONTRACT NO. 53-A.
For constructing certain portions of the dock wall around Ohio Basin, Buffalo.
Contract plans, sheets 1-7 inclusive.

—3—

TERMINAL CONTRACT NO. 76.
For constructing storage yards at Erie Basin, Buffalo.
Contract plans, sheets 1 and 2.

—4—

TERMINAL CONTRACT NO. 114.
For furnishing and installing two three-ton semiportal revolving jib cranes on the Barge canal terminal, at Erie Basin, Buffalo.
Contract plans, sheets 1 to 2.

Plans may be seen and detailed specifications, engineer's estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawing may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of each contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

Official Proposals reaching our office in first mail Wednesday morning (9 o'clock) can usually be published in the issue out the next day. Special price for Official Proposals, 40 cents a line.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

EDWARD S. WALSH,
Superintendent of Public Works.
Angust 5th, 1920.

Bids: Sept. 22.

Construction of Breakwater

SOUTH PARK COMMISSIONERS

Chi ago, Ill.

Sealed proposals will be received by the South Park Commissioners, 57th Street and Cottage Grove Avenue, Chicago, Illinois, until 12:00 o'clock noon, September 22, 1920, for the construction of a wooden pile, stone-filled breakwater along the lake front extending from opposite Eleventh Place to a point near Twenty-fourth Street, a t :al distance of approximately 7,490 feet. The approximate quantities of material required for the work are as follows:

Round piles 40 to 50 ft. long, 11,385.

Timber (waling and sheet piling), 970,000 ft. B.M.

Quarried stone filling, from one cubic yard in size, down, 90,000 tons.

Bolts, rods and other steel work as required by the plans.

The work will be divided into three sections and bids will be considered upon each section separately or upon the work as a whole.

Plans and specifications may be obtained without cost to responsible bidders by application to the South Park Commissioners' office as above.

Each bid must be accompanied by cash or certified check amounting to 5% of the estimated total of the bid, and the bidder to whom the contract is awarded will be required to execute with the contract a surety company bond, in the sum of 25% of the estimated amount of the contract.

J. F. NEIL, Secretary.

Bids: Sept. 10.

Repairing of Road

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION

Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the repair of the following:

State Highway Route No. 1, Highland Park to Hotel Pine, patching with 2-in. bituminous concrete surface, grade W, estimated 8,000 square yards.

Bids will be opened and read in public at the office of the State Highway Commission, Broad Street Bank Bldg., Trenton, N. J., on Friday, Sept. 10, 1920, at 10:30 p.m. (Eastern Standard time).

Specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department at Trenton, N. J., and may be inspected by prospective bidders. Specifications will be furnished on deposit of ten dollars ($10) upon application to the State Highway Department. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, same to be inclosed in sealed envelopes bearing the name and address of bidder and name and section of route on the outside, addressed to

STATE HIGHWAY COMMISSION,
Broad Street Bank Bldg.,
Trenton, New Jersey.

and must be accompanied by a certified check for not less than ten per cent (10%) of the amount of the bid, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in, and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications.

By order of the STATE HIGHWAY COMMISSION.

A. LEE GROVER,
Chief Clerk.

Bids: Sept. 14.

Construction of Foundations

DEPARTMENT OF PUBLIC WORKS
BOARD OF TRUSTEES
THE FREE LIBRARY

Phila., Pa.

Sealed proposals will be received in Room 216 City Hall addressed to the Director, Department of Public Works, and the Board of Trustees, The Free Library of Philadelphia, until 12:00 o'clock noon on Tuesday, September 14th, 1920, and opened at that time in Room 202 City Hall for

The construction of the foundations for the Building of The Free Library of Philadelphia located on a plot of ground bounded by Vine, Nineteenth, Wood and Twentieth Streets, in the City of Philadelphia.

A certificate from the Law Department that the proposal bond has been filed must accompany each bid.

Bidders must fully acquaint themselves with all the legal and departmental regulations applying to contract work in the City of Philadelphia. See reference to various such rgulations in the specifications.

Plans will be delivered upon deposit of Fifteen ($15.00) Dollars with the Architect.

Copies of plans, drawings and specifications for the above work can be secured from Horace Trumbauer, Architect, 1406 Land Title Building, Philadelphia, to whom all inquiries for additional information may be addressed.

The Board of Trustees, The Free Library of Philadelphia.

JOHN ASHHURST, Librarian.
FRANK H. CAVEN, Director,
Department of Public Works.